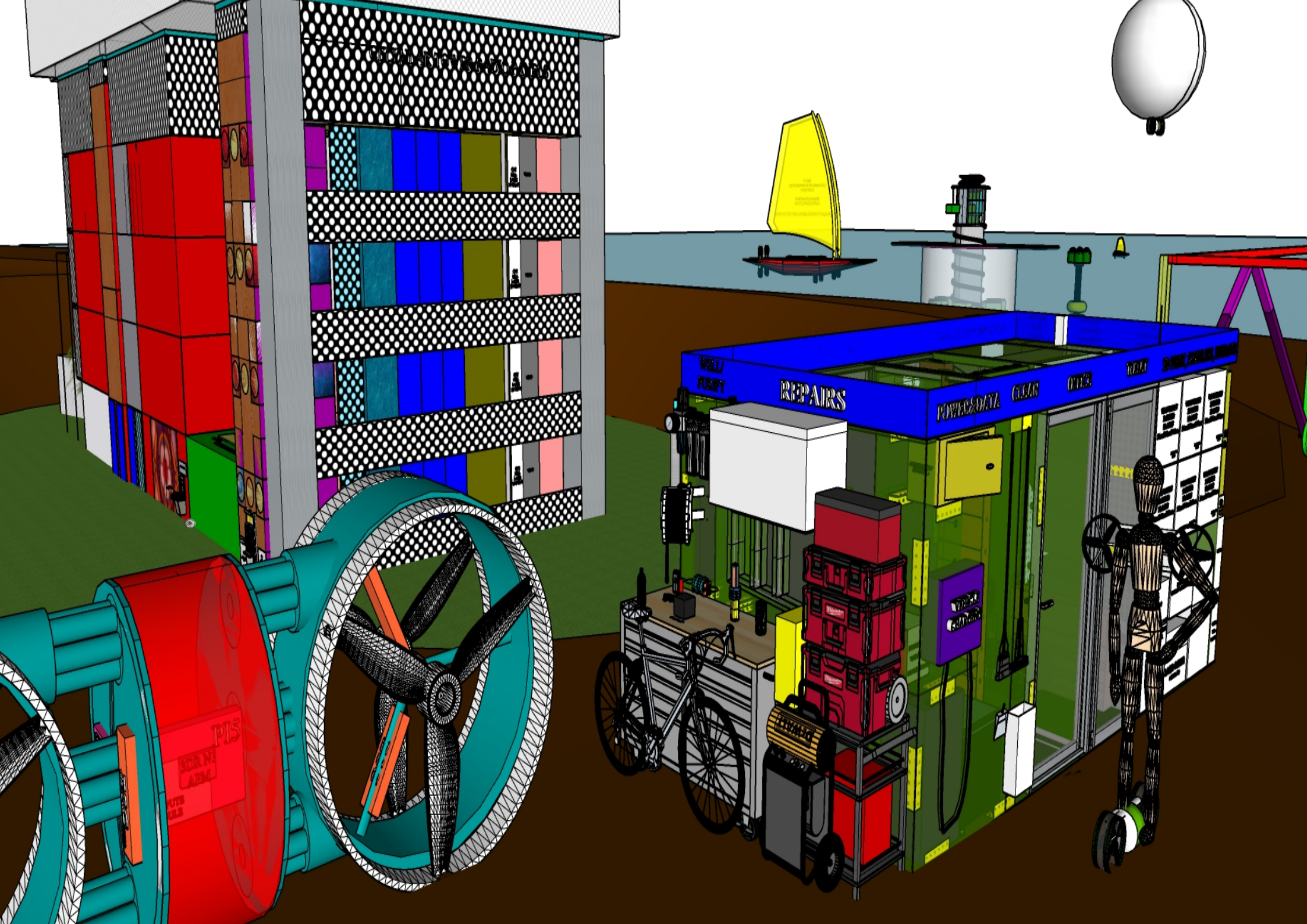
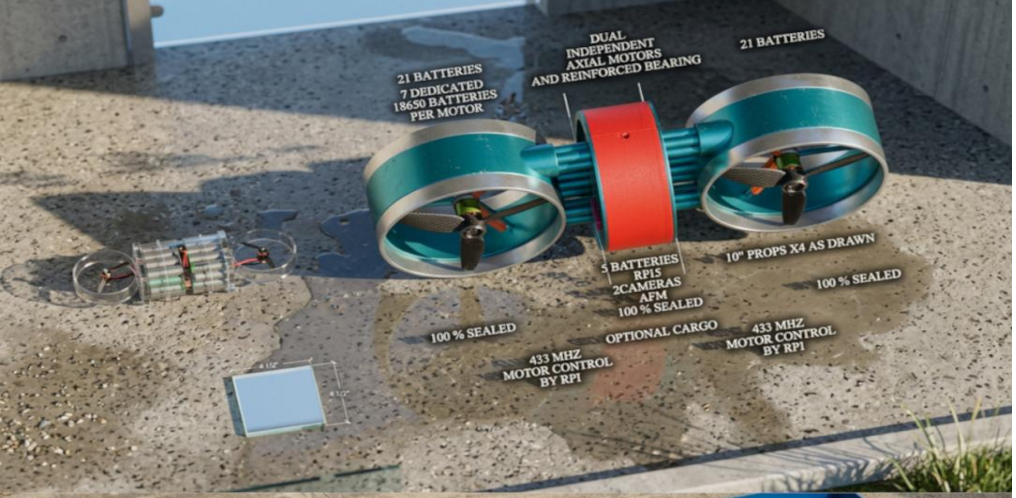

REPAIRS
POWER/DATA
CLEAN



HOW TO MAKE AN AUTONOMOUS EMPLOYEE.

$400 FOR AI OFFICE WORKER + $400 TO GIVE IT AN ARM/VEHICLE

AI SETUP (LOCAL OR CLOUD OPTION)

Obsidian

NOTES:
TAKING & ORGANIZING

Cline

AGENTS:
AUTOMATE TASKS, MANAGE GROUPS / TASKFLOW, TIE TO TOOLS/SOFTWARE. CHOOSE LOCAL OR CLOUD AI HERE.

LM Studio

MODEL HOST:
RUN LOCAL MODELS (ANY “LOCAL”/“OPEN” MODEL)

kwin-mcp 0.7.0 KDE

DESKTOP MODEL-CONTEXT-PROTOCOL & RELATED SOFTWARE SUITE:
CONTROL MOUSE, KEYBOARD, BROWSER, AND API ACCESS FOR SPECIFIC PROGRAMS

Raspberry Pi OS

OPERATING SYSTEM:
RUN THE HARDWARE, AND MORE APPLICATIONS (BUILT ON LINUX *DEBIAN)

VEHICLE/ ARM SETUP

ARDUPILOT

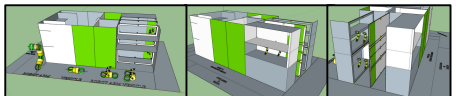
VEHICLE MOTOR CONTROLS,
SENSORS, STABILIZING, RADIO & MISSION TIES.

GAZEBO

SIMULATION
ENVIRONMENT, PHYSICS & COLLISION

ROS 2™

ROBOT CONTROL
ARMS, ETC. CUSTOM ROBOT/ROBOT ARM STUFF.



***HOME AUTOMATION**

Domoticz

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"PROBLEM STATEMENT" "BECAUSE" "REASON" "WHY"

Risk Table with Fully Cited Design Response Levers

Problem / Risk	Likelihood by 2030 (order-of-mag)	Offsets / solutions (macro)	Local impact on East County fab / real estate	Design response lever (what you can actually do)
Large and rising federal deficits / debt stress	~60–80%	Tax changes, spending restraint, higher nominal growth, entitlement reforms, global demand for Treasuries.[1][2]	Higher long-term interest rates, tighter credit for small projects, more volatility in cap rates and exit valuations.[1-1][2-1]	Assume higher cap rates and interest; design for low capex per sq ft, modular phases, and strong DSCR at higher debt costs, leveraging modular construction's resilience and cost-control benefits.[3][4][5]
Social Security trust fund insolvency, benefit cuts early 2030s	~70–90% (under current law)[6][7]	Legislative reforms to taxes/benefits/retirement age.[6-1][8][7-1][9]	Retirees and low-income tenants have less cash; more residents may seek cheap live/work and community support instead of pure rent.[6-2][7-2]	Target micro-units at working-age and production-oriented residents; use co-op live/work structures so residents can generate income on site, consistent with resilient-housing and co-op/shared-equity models.[10][11][12]
Other social welfare / healthcare cost pressures	~70–90%	Healthcare cost controls, benefit redesign, revenue measures.[1-2][13]	Higher operating costs (insurance, healthcare) for tenants; more pressure on wages and employment costs.[1-3][13-1]	Structure units so each business bears its own OpEx; prioritize efficient building systems to keep common OpEx low, in line with resilient design's emphasis on efficiency and shared infrastructure.[14][15][16]
Automation/AI eliminating jobs (net job loss)	~30–50%	Reskilling, new AI-complementary sectors, worker augmentation.[17][18][19][20]	Some potential residents lose traditional jobs but look for cheap, production-oriented space to self-employ or freelance.[17-1][18-1]	Program the building as an automation-dense micro-factory with low rent but high output potential (robots, CNC, printers, modular fab shops), aligning with modular fabrication and resilient industrial-facility guidance.[3-1][4-1][21]
Automation/AI transforming most jobs (task automation)	~70–90%	Firms use AI for augmentation; policy eases transition.[17-2][18-2][19-1][20-1][22]	Tenants' work patterns change (more remote, more project-based), driving demand for flexible, high-tech workbays and small offices.[20-2][22-1]	Provide high-bandwidth, AI-friendly infrastructure and modular bays sized for robots/3D printers, consistent with flex-space and shared-workspace design guidance on modular, tech-enabled space.[23][24][25]
Polarization of labor market / inequality	~50–70%	Taxes, transfers, worker protections, education access.[26][19-2][22-2]	Greater demand from lower-income makers and trades, but less stable rent; higher default risk; more desire for co-op structures.[26-1][22-3]	Use co-op membership and revenue sharing instead of pure rent to share risk and align incentives among participants, as supported by revenue-sharing research and worker/co-op structures.[27][28][12-1]
Shrinking labor force due to aging	~80–90%	Higher participation, immigration, automation.[29][30][2-2]	Tight local labor for construction and operations; higher wages for skilled trades; harder to staff traditional building ops.[29-1][30-1]	Design for extreme labor-lean operations (automation for maintenance and material handling; robust, low-maintenance envelope), reflecting resilient design's focus on durability, redundancy, and operational robustness.[31][32][33]
Office/white-collar AI automation	~50–70%	Redeployment, retraining, new AI-integration roles.[20-3][22-4][18-3]	Displaced white-collar workers may seek hybrid office+shop setups; more part-time, project-based residents needing flexible space.[20-4][22-5]	Mix small enclosed offices with adjacent fabrication bays and implement flex-space layouts that can be reconfigured quickly for different tenants, as described in industrial flex-space and coworking guidance.[23-1][34][35]
Significant de-dollarization (material drop in dollar's global role)	~10–30%	Strong institutions, deep markets, rule of law.[36][37][38][39]	Higher imported equipment costs (machines, electronics), more FX volatility; financing conditions more fragile.[37-1][39-1]	Favor domestic or regional modular suppliers and design around refurbishability and long service life of imported modules/equipment, in line with modular-construction and resilience literature on lifecycle and quality.[40][21-1][5-1]
Mild de-dollarization (diversification, dollar still #1)	~60–80%	Adaptation to multipolar currency system.[37-2][38-1][39-2]	Slightly higher imported input costs; nothing structurally catastrophic, but less margin for error on capex.[37-3][38-2]	Lock in key long-lead imports early and stock critical spares; resilience and future-proofing guidance emphasize redundancy, local resources, and phased implementation.[41][42][43]
Housing / real-estate stress (incl. CRE)	~40–60%	Macroprudential tools, localized adjustments.[29-2][2-3][44]	Opportunity to buy/entitle land cheaper if broader CRE weakens; but financing gets conservative, appraisals tight.[29-3][2-4]	Phase the project, keep land/entitlement light until the core shell proves itself, and use modular units that can be relocated or reused, matching resilient modular-construction guidance.[3-2][45][46]
Major recession by 2030 (non-collapse)	~60–80%	Monetary easing, fiscal stimulus, stabilizers.[47][48][2-5]	Tenants' revenues cyclically hit; vacancy spikes; cost of capital may drop temporarily; distressed assets appear.[47-1][48-1]	Design for fast tenant turnover and a diversified tenant base; flex-space and coworking literature explicitly support short terms, modular layouts, and rapid churn as risk management tools.[23-2][49][25-1]
Systemic "economic collapse" / GD-like event	~10–25% (2030s), lower by 2030[29-4][30-2][2-6]	Institutional resilience, crisis policy, reforms.[29-5][30-3][2-7][48-2]	Severe demand shock; credit freeze; opportunity if you're liquid, but survival if leveraged.[29-6][2-8]	Keep leverage conservative and avoid exotic financing structures; resilience and modular risk literature stresses robust, transparent financial structures and careful risk management.[50][51][52]
Significant de-globalization / trade fragmentation	~40–60%	Regional blocs, reshoring, friend-shoring.[30-4][2-9][48-3]	More demand for local, domestic manufacturing; higher input prices; better business case for "fab village" east of 125.[30-5][2-10]	Position as a local supply-chain node (multi-material fab) and emphasize local production capacity, as urban-resilience frameworks highlight local supply chains and local production as resilience strategies.[41-1][53][54]
Persistent elevated inflation	~40–60%	Credible monetary policy, supply investments.[47-2][48-4][2-11]	Rising construction and OpEx costs; upward pressure on nominal rents but with tenant stress.[47-3][48-5]	Use durable, resilient materials and simple assemblies to reduce lifecycle costs; resilient design guidance repeatedly stresses durability, simplicity, and long service life.[55][56][32-1]
Cyberattacks on critical infrastructure	~30–50%	Cybersecurity investment, redundancy, coordination.[48-6][44-1]	Grid or network outages; payments and logistics disruptions; IT/OT convergence risk (automation offline).[48-7][44-2]	Use high-efficiency equipment and building envelope, plus PV+storage and possibly dual-fuel backup systems, aligning with resilient-energy design and microgrid-ready PV guidance.[14-1][15-1][57]
Climate-related disasters, higher losses	~60–80%	Resilient infrastructure, adaptation, insurance.[48-8][58]	Higher fire/heat risk; insurance costs increase; more code constraints (energy, resilience).[48-9][58-1]	Use climate-resilient modular construction (fire-resistant materials, elevated services, robust envelopes) to withstand environmental stressors, as modular resilience and built-environment studies recommend.[45-1][42-1][10-1]
Systemically important banks failing / contagion	~15–30%	Capital/liquidity standards, stress tests.[59][60][61]	Credit squeeze; construction lending shuts; tenants' banks can fail; payment systems disruptions.[59-1][60-1]	Minimize dependence on large-bank credit and maintain multiple funding sources; resilience frameworks stress economic diversity and redundancy in financial and community systems.[62][51-1][63]
Non-bank financial instability (shadow banking)	~30–50%	Extended oversight, macro-prudential tools.[64][65][61-1]	Private credit, RE funds, and CMBS volatility; cost of capital whipsaws.[64-1][65-1]	Prefer simple, transparent financing structures and avoid over-complex, opaque credit vehicles, consistent with systemic-risk and regulatory guidance on too-complex institutions.[59-2][66][61-2]
Asset bubbles and abrupt corrections	~40–60%	Leverage limits, targeted interventions.[67][65-2][68]	If we're in a bubble, values drop; opportunity to buy cheap, but your collateral value can also get marked down.[67-1][68-1]	Underwrite projects on conservative rent/sale assumptions; urban-resilience and housing-stability work emphasizes economic robustness and avoiding models that depend on speculative appreciation.[62-1][51-2][11-1]
Energy price shocks (oil, gas, electricity)	~40–60%	Diversified energy, storage, efficiency.[47-4][67-2][65-3]	Grid power and fuel cost spikes; fab OpEx volatile; transportation of containers/materials more expensive.[47-5][65-4]	Use high-efficiency equipment and building envelope, plus PV+storage and possibly dual-fuel backup systems, aligning with resilient-energy and microgrid guidance.[14-2][15-2][57-1]
Supply-chain shocks (pandemics, wars, chokepoints)	~40–60%	Diversification, reshoring, stockpiles.[47-6][48-10][65-5]	Delays on imported equipment and materials; inconsistent feedstock for fab lines.[47-7][65-6]	Build inventory buffers for critical items and design equipment around generic, widely available components, as climate-resilient supply-chain and urban-resilience literature recommends.[69][53-1][52-1]
Governance failure (shutdowns, debt standoffs, paralysis)	~40–60%	Budget reforms, improved fiscal frameworks.[67-3][65-7]	Permitting and inspections slow or freeze; federal support unreliable; uncertainty around tax rules.[67-4][65-8]	Choose jurisdictions and approval paths that minimize discretionary approvals and allow iterative improvements, consistent with resilient governance and infrastructure-planning strategies.[69-1][43-1][70]
Social unrest / political instability linked to economic stress	~30–50%	Safety nets, inclusive growth, responsive governance.[67-5][58-2][65-9]	Potential security issues, disruptions in city services; reputational risk depending on affiliation (religious/ideological).[67-6][65-10]	Harden site security, control access, and design for shelter-in-place; resilient-built-environment guidance includes security, robustness against external threats, and safe refuge spaces.[42-2][56-1][71]
Regulatory failure / rollback (systemic risk returns)	~20–40%	Maintain updated regulation, independent oversight.[59-3][66-1][61-3]	Another 2008-style cycle possible; sudden changes in financing, building codes, or environmental rules.[59-4][66-2]	Keep structural and regulatory conservatism and provide capacity for future code upgrades (spare conduits, adaptable layouts), as adaptable/resilient/future-proofing frameworks recommend.[55-1][33-1][43-2]
Household balance-sheet deterioration (consumer leverage)	~30–50%	Underwriting, consumer protection, macro-prudential tools.[67-7][68-2][72]	Residents and small tenants more fragile; higher risk of delinquencies and short-term turnover.[67-8][68-3]	Focus on productive tenants (makers, services) and co-op participation; research on shared workspaces and worker cooperatives shows that shared resources, participation, and co-governance can support stability and satisfaction.[73][12-2][74]

AMERICAN SOCIETY IS MOST LIKELY TO END WHEN THESE ITEMS OCCUR SIMULTANEOUSLY OR IN QUICK SUCCESSION.

TO PREVENT THE END OF AMERICAN SOCIETY (OUR NATION/WAY OF LIFE) FINISH THESE FIRST THREE #MATTERS IN ORDER TO SUPPORT ACTUAL #INDEPENDENCE.

1. **TERM LIMITS**
(8 YEARS TOTAL, 2 TERMS ALL ELECTED/APPOINTED POSITIONS)
2. **BALANCED BUDGETS**
(QUARTERLY DOWN TO THE SPEED OF THE NANOSECOND)
3. **VOTERID**
(US PASSPORT AND DIGITAL/ONLINE ID)

WITHOUT THESE THREE, AMERICA CONTINUES TO DIE AS POLITICIANS AND SPECIAL INTERESTS USE GOVERNMENT FOR THEIR OWN PERSONAL REASONS (ALL PARTIES AND PARTICIPANTS ARE AT FAULT.) THE CURRENT PARTY IN POWER MUST FIX THESE THREE THINGS TO RE-ESTABLISH A ***REPRESENTATIVE DEMOCRACY*** ACCORDING TO THE US CONSTITUTION. "NOTHING ELSE MATTERS" BECAUSE ANY OTHER POLICY IS BEING ENACTED AGAINST: REPRESENTATIVE DEMOCRACY / THE US CONSTITUTION / THE INTENT OF THE FOUNDERS / INALIENABLE RIGHTS.

–

THEN, PIVOT TO WORK THAT ADDRESSES THESE MORE DETAILED ISSUES (DON'T JUMP AHEAD, OR YOU WILL CREATE A BROKEN RESPONSE.) THE "DESIGN RESPONSE" IS HOW THE BUILDING AND PRODUCT HERE DO SO. NOTE – THESE ARE A BROKEN RESPONSE, BECAUSE THESE WERE DESIGNED IN ISOLATION AND WITHOUT AN ACTUAL REPRESENTATIVE DEMOCRACY. THE END RESULT IS THAT THEY WILL LIKELY FAIL BECAUSE OF UNFAIR COMPETITION WITHIN AN ECONOMY THAT ISN'T ACTUALLY CAPITALIST (WE LIVE IN A CROSS BETWEEN OLIGARCHY AND DEMOCRACY – PRIVATE/GOVERNMENT ENTITIES OVERLAP AND THERE ARE ONLY A FEW THOUSAND MAJOR PLAYERS.)

300X3.COM – BITS, BOXES, BOATS, BOTS & BYTES

BOOK
HUD
COMM
ASSETS
AUDIO
ARCH
INTRO
DESIGN
SIM
DESK

WATER STORAGE

A. 2 LITER BOTTLES – SHOWER, WASH, COOK, ETC. (THE LID IS STRONG)
B. THREE WATER BOTTLES – STAINLESS: 1 SINGLE WALL, TWO VACUUM SEALED DOUBLE WALLED (1 BOIL, 1 HOT STORAGE, 1 ICE STORAGE)
C. BOILER METHOD – WOOD, COAL, PROPANE/BUTANE STOVE, WHITE GAS STOVE, ELECTRIC HEATING ELEMENT + BATTERY + SOLAR, PARABOLIC MIRROR THERMOS. (EASY VERSION: MIRRORED THERMOS & A DROP IN HEATING ELEMENT)
D. FIRE START METHOD – BUTANE LIGHTER (WINDPROOF), EMBER MAKER, FLINT, MATCHES.
E. **INSTANTPOT** / PRESSURE COOKER– BOILING, COOKING (ALSO PROCESSING / CHEMISTRY.) TIMER/ALARM OPTION WITH DOUBLE BOILER = HOT WATER & OATMEAL OR QUICHE READY IN THE MORNING AT LOWEST POWER CONSUMPTION POSSIBLE. COOK, OR RAW (DRY/NUTS/FRUIT.) QUICHE = BREAD, EGG, MEAT, VEGGIES.

DAILY CARRY

1. RUBBER DRYBAGS – 1 BIG AS BACKPACK, 3 INNER SMALL ONES FOR A. CLOTHES, B. WASH/WET, C. MISC (PATCH WITH OLD BICYCLE TUBES AND SUPERGLUE *NOT RUBBER CEMENT.) ADVANTAGES: NO SNAG ON BRANCHES, FLOATS, CARRIES H2O, NO BODY/SWEAT/MOLD OR ODOR SMELL, NO RAIN/WATER ISSUES.
2. MESH EXERCISE BAG – DRAIN/DRY/ORGANIZE OUTSIDE BAG.
3. COOLER – STRAP TO BAG
4. PIPE/SURVIVAL PEN – BACKPACK LOAD SPREADER BAR AT STRAPS (FISHING, COMPASS, WHISTLE, FLINT, ETC.)
5. LARGE CARABINER – DEEP TOP (ATTACH MAIN BAG OVER PANELS, FENCES, BRANCHES, DOORS, ETC.)
6. CHEST PACK – OFFICE & SMALL TOILETRIES
7. CLAMSHELL CASE – TOOLS, REPAIR, WATERPROOFING
8. PLASTIC FARMERS SHEET – GROUND COVER/WRAP/TENT
A. LARGE LOCK – LOCKER OR BIKE (COMBINATION)
B. DIGITAL WATCH – TIME & ALARMS (CASIO OR TIMEX)
9. 1 WASHCLOTH WET – PERSONAL HYGIENE (SHOWER)
10. 1 WASHCLOTH DRY – DRYING/OILY (OR WRING OUT WET), SOME LOUFFES AND SPONGES DRY OUT FASTER.
11. LIQUID SOAP – SODA/DRINK BOTTLE (CLOTHES, SELF) ***DAWN.**
11.1. BAKING SODA – WORKS AS SOAP, AND FAR MORE (BE CAREFUL WITH SKIN/INTERNAL PH AND *FUNGUS OR BACTERIA GROWTH.)
12. 5 GALLON BUCKET + SCREW LID – FOOD, FUEL/CHEM
13. NEONATAL BULB – EARS (WAX REMOVAL)
14. TOOTHBRUSH – SONICARE IS BEST (BASE MODEL)
15. TOOTHPASTE – ENERGY/SHAMPOO BITTES
16. NAIL CLIPPERS – NAILS, FISHING LINE CUTTING
C. FOOD BOWL OR BOX – WATERTIGHT LID (STRONGER)
D. LONG TEASPOON OR SPORK – JARS/FOOD (STAINLESS)
E. LIGHTERLINE / RUBBING ALCOHOL – STERILIZE + DISHES
F. MULTITOOL – REPAIRS (LEATHERMAN)
G. FLASHLIGHT – USB RECHARGEABLE AT BATTERY (ADD A LANTERN LENS/HOOD/LIQUID BOTTLE FOR A BOTTLE LAMP)
H. BUTANE LIGHTER – LIQUOR STORE (SOLDER BIG WIRES)
17. $1 NOTEBOOK – NOTES/TODO (IN PLASTIC BAG)
18. SHARPIE – SIGNS & NOTES (1 THIN, 1 EXRA LARGE)
19. MECHANICAL PENCIL – THICKER LEAD (DARK YELLOW)
20. ERASER – LARGER (BAR)
21. NOTECARDS – NOTES/BUSINESS CARDS
22. SOLDERING IRON – ELECTRIC (SMALL – SMALL WIRES)
23. SOLDER & FLUX – ROSENDIN (LEAD STICKS/UNHEALTHY)
24. PARACORD – ATTACHING, TYING DOWN. (EXHAUST THE SQUARE KNOT, BOWLINE, AND TRUCKER'S HITCH.)
25. SUPERGLUE – REPAIR (ALSO WORKS ON RUBBER)
26. DUCTTAPE – REPAIR (ADD SUPERGLUE FOR PATCHES)
27. NEEDLE SET – CURVED NEEDLES (SMALL IS IDEAL FOR TIGHT SPACES)
28. FAT FISHING LINE – SEWING (UNDERWEAR (BRIGHT)
I. ROLL OF DOG BAGS – SMALL TRASH BAGS (AND/OR PB JAR)
J. PLASTIC GROCERY BAG – ORGANIZE, WASH, CARRY (DRY BAGS)
K. TRASH BAG – TRASH, SLEEP IN (*WARMER / LESS WET)
29. CHARGE PHONE AS NEEDED – LINUX FAIRPHONE, PINEPHONE OR LIBREM. BASIC LAPTOP CAPABILITIES ON LINUX MOBILE DEVICES. ADD: SPLIT KEYBOARD + MOTION CAMERA + TRACKBALL OR MOUSE + 1080P/LENS GLASSES (READ TEXT/OFFICE.) RPI RECOMMENDED AS REPLACEMENT.

CLOTHES

1. SANDALS – CLEAN FEET, BIKE CLIP OPTION, RUNNABLE (KEEN)
2. BOOTS – METAL/MACHINERY (LEATHER, NO STEEL TOES NEEDED)
3. SNEAKERS – QUICKDRY (SWAP SANDALS FOR THESE, 3D PRINT?)
3. 2 PAIRS SOCKS – THIN (BLISTERS/DRYING)
4. TANK TOP – FAST TO WASH (+ COOL OR WARM CORE COVER)
5. THIN LONGSLEEVE HOODIE – UNDERLAYER (BRIGHT)
6. PUFFER JACKET / WOOL – WARMTH & LIGHT BLACK OUT (WITH HOOD)
7. JACKET – WARMTH/SHELL (RAIN & WIND)
8. RUNNING SHORTS WITH LINERS – UNDERWEAR (PUBLIC WEARABLE – TARGET, NEUTRON BRAND)
9. LIGHT FABRIC PANTS – WASHABLE (GERRY, LL BEAN, ETC.)
10. YOGA PANTS – WARMTH
11. OVERALLS – FOR FIRE/METAL SLAG (NO MELTS)
12. COLLARED SHIRT – POLO (WINDPROOF/ATHLETIC)
13. COLLARED SHIRT – LONGSLEEVE (FORMAL, CHURCH)

TRANSPORTATION/VEHICLE

A. SKATEBOARD> SCOOTER> BICYCLE> METRO/BUS> MOTORCYCLE> CAR/VAN>
ETC. VAN WORKS GOOD, FEWER WINDOWS AND SMALLER = RELATIVELY SECURE, SOLAR PANELS ON TOP – SHADED INTERIOR (EXPOSED METAL AND GLASS GETS COLD/HOT QUICK.) VANS IN GARAGE = EASY HOUSE APARTMENT.
B. OBD READER – CAR COMPUTER INTERFACE (BLUETOOTH, CHECK COMMUNICATION PROTOCOLS: CAN, ELM, ETC.) USB IS BETTER FOR CONNECTING TO LAPTOP & FOR FLASHING/FUEL TRIM ADJUSTING.
C. OBD INTERFACE – CAR MODEL SPECIFIC
D. DEEP CYCLE MARINE BATTERY – CHECK "GROUP" AND TRAY SIZE (LOWER CCA– NOT FOR LARGER ENGINES *V8/V6.)
E. SOLAR CHARGER + PANEL – MPPT (MOST EFFICIENT)
E. ULTIMUM IRON (LIFE) – MPPT – SOLAR KITCHEN/HOME USE (LOWER HORSEPOWER FOR WATT POOLING CAPACITOR ON RED POSITIVE LINE OR BIG BAT + INVERTER FOR INSTANTPOT.) I ONLY HAVE GOOD LUCK WITH LIPO.
F. SOLAR GENERATOR – LITHIUM ION/POLYMER* (OFFICE.)
G. LOCK – OBD/CLUB/PUCK (LONGER CLASP FOR COOLER)
H. LARGER DRYBAGS – TRASH/RECYCLING/WOOD

PLASMA DONATIONS (SOME INCOME)

1. CRT PLASMA
2. BIOLIFE
3. OCTAPHARMAPLASMA
4. GRIFOLSPLASMAC

FOOD

1. BALANCED, HEAVY ON PROTEIN AND VITAMINS (SALAME, TURKEY, SQUID, CHICKEN, SOMETIMES SAUSAGES, HAM AND BOLOGNA ARE CHEAP, PEANUT BUTTER, FRUIT, APPLES, ALMONDS, SOY MILK (DRINK IT IN A FEW DAYS), GREEK YOGURT (GUT REPAIR – EAT WHEN PURCHASED.)
– OPTION: RAW FOOD – NUTS, BERRIES, ETC. BREAD/FLOUR IS GENERALLY REQUIRED FOR LARGER #S OF PEOPLE BECAUSE OF CALORIC CONTENT PER ACRE WITH AUTOMATION & DIET DIVERSITY.
2. NO REFRIGERATION OR ICE REQUIREMENTS FOR FOOD IN THE CAR (STINKS QUICK, TOUGH TO MAINTAIN + DRAIN.)
3. POTATO FLAKES + CANNED FOOD = SHEPHERD'S PIE
4. FROZEN FOOD AND HEAT ON CAR / IN PLASTIC BAG WITH SUN OR ENGINE (EAT FROZEN FOOD IN A FEW DAYS.)
5. XL PEANUT BUTTER / SIMILAR JARS
(ORGANIZING, HELPS KEEP THINGS DRY AND VISIBLE)

WATER

TWO VACUUM SEALED STAINLESS VESSELS.
A. 1 INSULATED VESSEL TO STORE BOILING WATER – GAS STATION DISPENSER INTO A DOUBLE PARABOLIC MIRROR THERMOS.
B. 1 INSULATED VESSEL TO STORE ICE – DRINK MACHINE.
C. 1 UNINSULATED METAL VESSEL WITH VENTING METAL LID, A METAL HANGING LOOP AND ANY HEATER "BAILER" / KETTLE BOILER.

CAUTION

BE CAREFUL HEATING OR SHAKING HOT WATER WITH A LID ON, IT RAPIDLY INCREASES THE TEMPERATURE OF THE AIR INSIDE THE VESSEL AND CAUSES SPLASHING OR A POPPED LID. THIS IS IMPORTANT BECAUSE IT'S ALSO A GOOD WAY TO WASH DISHES QUICKLY. ADD RUBBING ALCOHOL TO SANITIZE, THIS MAKES PRESSURE BUILD EVEN FASTER. EASY TO: EAT/DRINK EVERYTHING, RINSE, AND SANITIZE WITHOUT HEAT OR SAVE SOME HOT WATER FROM COOKING TO CLEAN STICKY FOOD.

FUEL SOURCES

HOT WATER BOOSTS MORALE, INCREASES METABOLISM AND PRODUCTIVITY OF A WORKOUT, INCREASES THE SPEED OF HEALING, AND JUMPSTARTS A SCHEDULE. COOKED FOOD ALLOWS FOR PROCESSING OF CALORIES FROM INEDIBLE FOOD SOURCES BY BREAKING DOWN CELLULAR WALLS – BOTH VEGETARIAN AND MEAT WHICH INCREASES THE NUMBER OF CALORIES YOU CAN CONSUME PER DOLLAR.
(EXAMPLES: RICE, OATMEAL, PASTA, VEGGIES, MEAT – ALL MORE DIGESTIBLE CALORIES AND EASIER TO EAT WHILE MORE FILLING & HYDRATING WHEN COOKED. HENCE, **SOUP & INSTANPOT QUICHE**.)

FIRE START

FLINT/MAGNESIUM & STRIKE, MATCH, BUTANE LIGHTER + PIEZZO STARTER, OTHER COAL/FRICTION DEVICE (EMBER MAKER,) PARAFFIN/CANDLE WAX ON PAPER/DRY VEGETATION KINDLING.

ADVENTUROUS FUEL OPTIONS

1. RADIATION – SUN + 2 CONCAVE MIRRORS.
2. WOOD – BUNDLES WITH A TARP, ROUGH BLANKET, SHEET TO CARRY.
3. COAL – 5 GALLON BUCKET WITH HOLE ON LID, USE CHARCOAL WITHOUT STARTER FLUID AND A SEPARATE TING OF LIGHTER FLUID.
4. PROPANE – RELIABLE, USE IT. *DON'T SUFFOCATE FROM LEAKING GAS OR MONOXIDE CREATED WHILE USING IT IN A SMALL SPACE LIKE A CAR OR ITS HIGHLY FLAMMABLE INTERIOR ALONG WITH YOUR BEDDING, OR BY SPILLING BOILING WATER ON YOUR GENITALS – GREEN CAN.
5. BUTANE + PROPANE MIX – FOR "HIGH ALTITUDE" LIQUOR STORE LIGHTER.
6. NATURAL GAS – MIX OF MANY, TYPICALLY PIPED IN.
7. WHITE GAS – LIQUID FUEL = HIGHER QUANTITY THAN GASEOUS AND ADJUSTABLE PRESSURE FOR ELEVATION/ETC.
8. HYDROGEN – BURNS CLEAR AND HOT. REQUIRES VERY HIGH PRESSURE + LOW TEMPERATURE TO BECOME A LIQUID (TO STORE MORE) ALL OF THESE MAKE IT DIFFICULT TO USE IT IS INSULATED HEAVILY
9. BATTERY ELECTRICITY – 1 BIG CAR BATTERY ≈ 1 BOILED GALLON, HIGH AMPERAGE REQUIRED TO START HEATING ELEMENT. EITHER AC–INVERTER OR A HEATING ELEMENT WITH A DEDICATED BATTERY.
(USE SOLAR WHEN MOVING IN BOAT OR CAR PRIMARILY.)
10. GRID ELECTRICITY – INDUCTION PLATE + LARGE COATED STEEL WASHERS INSIDE THE STAINLESS VESSEL.
11. CHEMICAL REACTION – ANY CHEMICAL REACTION RELEASES HEAT AND THE FUNDAMENTAL REQUIREMENT IS TO INCREASE SURFACE AREA BY GRINDING UP CHEMICALS AS MUCH AS POSSIBLE, THEN ADD WATER AND AN ACCELERANT TO THEM. FAST CHEMICAL REACTIONS HAVE SOME KIND OF BI–PRODUCT WHICH WILL PROBABLY KILL YOU IF INGESTED BECAUSE IT'S FAST/HOT. EXAMPLE: ALUMINUM POWDER + WATER REACTS VERY FAST, FAST ENOUGH FOR ROCKET FUEL SO FAST ENOUGH TO BOIL WATER. MRE CHEMICAL HEATER IS AN EASY ANSWER (NEW VERSION.)
12. MICROWAVE – DON'T TOUCH THE SIDES OF THE MICROWAVE WITH THE METAL VESSEL… I PUT A STAINLESS FORK IN A MICROWAVE ONCE, IT ZAPPED WITHOUT TOUCHING. USE SOMETHING NON METAL OR WITHOUT METAL THAT HAS SMALL GAPS BETWEEN EDGES (E.G. NO CRUMPLED FOIL.)
13. SOLAR PANELS MUST BE IN THE SUN – THAT OFTEN DOESN'T WORK WHILE WALKING. GET SOME THAT WRAP INTO A TUBE (100 WATT INTO A PVC TUBE + SLOT), GLUE A FLEXIBLE ONE ONTO WHAT'S ALREADY IN THE SUN, OR A FRAMED PANEL ABOVE A LIVING AREA (A FRAMED SOLAR PANEL SHADES AND COOLS THE ROOF/INTERIOR & IS MORE EFFICIENT/LONGER LASTING TYPICALLY.) FLEXIBLE PANELS DON'T LAST AND HAVE LOW WATTAGE WHILE OVERHEATING EASILY. USB–C IS MATCHED AS ONE 240 WATT CABLE TO ONE 200 WATT PANEL, EXCEPT USB–C CABLES OFTEN BREAK QUICKLY AND ARE RARELY RATED FOR 240W, CERTAINLY NOT AT A REASONABLE PRICE.

COMMENTS – I INCORPORATE CHANGE RATIONALLY. EMAIL 300X3@POSTEO.NET WITH DETAILS ON BUSINESSES AND PREFERRED PRODUCTS ALONG WITH WHAT MAKES THAT PRODUCT FUNCTION BETTER WHILE COMING FROM A MORE MORAL/ETHICAL SOURCE, AT A MORE COMPETITIVE PRICE IN TERMS OF THE VALUE OF ITS USE–CASES.

GROCERY

A. ALDI'S – INCREDIBLE PRICES, GERMAN FOOD, DEFINITELY GO –
PROTESTANT GERMAN HISTORY & ATTEMPTS BY CATHOLICS / KIDNAPPERS / MURDERERS TO WIPE THEM OUT ENTIRELY.
B. SMART&FINAL – ON THE FENCE. BULK STANDARD BRANDS, LOW COST "STRIP STREET" BRAND, MUCH MADE IN LA. OWNED BY ALTRUISTIC CORPORATION, PROBABLE A NEGATIVE IMPACT ON U.S. FOOD SECURITY.
C. KROGERSMARKETS.COM – NO GO. PRICES ARE NOT PARTICULARLY LOW, OWNERSHIP ALSO HAS CATHOLIC HISTORY.
D. KROGERS / RALPHS / ALBERTSONS – SHAREHOLDER OWNED, NOT THE LOWEST PRICE, LOOK FOR DEALS.
E. JACKINTHEBOX.COM – 2 FOR $1 (BUY ONLINE.)
D. WALMART.COM – INEXPENSIVE (SOMETIMES A LITTLE MORE THAN ALDI'S, DOESN'T TASTE AS GOOD)

TRANSITIONING: NEED MORE CHRISTIAN FAMILY OWNED BUSINESSES, OTHERWISE I AM RELIANT ON SHAREHOLDER OWNED LARGER COMPANIES. DIFFICULT TO FIND SMALL BUSINESSES WITH GOOD PRICES. I'VE BEEN BUYING GROCERIES IN SAN DIEGO COUNTY. THE MEXICAN MARKETS HAVE HIGHER PRICES AND THE MIDDLE EASTERN MARKETS ARE FROM A LARGE VARIETY OF RELIGIOUS BACKGROUNDS THAT I DO NOT WANT TO SUPPORT. TRIAL AND ERROR. FALLING BACK ON LARGE BUSINESSES AND FARMERS MARKETS APPEARS TO BE A REQUIREMENT. I HAVE ALREADY FED THESE OTHER BUSINESSES ENOUGH AND IT HAS CAUSED INTENSE SUFFERING – BOTH PHYSICAL AND SPIRITUAL WHICH I DO NOT WANT FOR ME OR OTHERS. CONSIDER SHADOW MOUNTAIN RELATED ARABIC BUSINESSES.

BUSINESSES

1. SWAPMEETS – NATIONAL CITY, SPRING VALLEY, SANTEE.
2. THRIFT STORE – MAIN ST. EL CAJON (AMVETS, EMPIRE THRIFT, AND SEVERAL OTHERS ON THAT STREET.)
3. MURPHYS – HARDWARE STORE + ALL PARTS/THINGS.
4. AUTOPART SUPERSTORE, MARSHALLS OR O'REILLYS.
5. COLLEGE PRINTING: PRINTS & PLASTIC LAMINATING, GOOD FOR A RESUME + AN EMAIL WEBSITE OF THE SAME INFORMATION.
6. BREW COFFEE SPOT – $2 COFFEE, OR CHEVRON/ETC FOR $2 (BREW HAS 2 HOURS INTERNET, 1 OUTLET & POWER.)
7. DOLLAR TREE – RANDOM STUFF (SUPERGLUE, TAPE, MESH BAGS, ABOUT 2/3 IS WELL OVER $1 NOW.)
8. CHEVRON.COM – E85 ETHANOL, COFFEE, HOT H2O, ICE. **USE TWIN CARD FOR DISCOUNTS.** MIX A FEW GALLONS OF STANDARD FUEL WITH ETHANOL – ENGINE MUST HANDLE HIGH HEAT AND BE "TRIMMED" BETTER FOR FUEL/AIR RATIO, "BURNS OIL", "BAND ON YOUR ENGINE", "KNOCKING NOISES" YEAH – THOSE ARE BAD, USE ELECTRONIC FUEL TRIM & LARGER PIPE/EXHAUST – USE ONE THIN CHANGE.
9. USPS.COM – MAIL TO GENERAL DELIVERY, WAIT IN LINE, THEN MOVE UP TO A P.O. BOX FOR NO LINE. POSTCARD SIZE AS BUSINESS CARDS/MAILERS.
10. OFFERUP.COM – USED STUFF, PHONE BASED.
11. CRAIGSLIST.COM – USED STUFF (WORKS GOOD WITH EMAIL, AND FOR GARAGE SALE POSTINGS.)
12. ETSY.COM – SMALL, WELL–MADE, INDEPENDENT BUSINESS ITEMS AT A LOWER PRICE.
13. EBAY.COM – HIGH MARKUP FOR SALES, RANDOM THINGS.
14. CARGO.SITE – ART COLLECTIVE +/– DEPENDING ON YOUR INTEREST
15. AMAZON – THESE ARE SMALL BUSINESSES, I PREFER TO BUY FROM THEM DIRECT ALTHOUGH AMAZON'S WARRANTY/SHIPPING ARE UNBEATABLE.

GOVERNMENT

A. SDCL.ORG – SAN DIEGO COUNTY LIBRARY: ELECTRICITY, INTERNET, SMALL PRINTS, COMPUTERS, WATER, BATHROOM, BOOKS. PROVIDE A SMALL BUSINESS ALTERNATE TO THESE RESOURCES BY USING THEM AND LAYING DOWN & NOT IN THE LIBRARY.
B. SPARKS.ORG – TOILET, OUTLET, INTERNET, WATER (COUNTY PARKS, LOOK UP PARKS ON RIDE MARBLE OR CITY GIS WEBSITES.)
C. BBB.ORG – BUSINESS REVIEWS
D. CHAMBEROFCOMMERCE.COM – LICENSED BUSINESSES
E. HTTPS://ARCC-ACCIAIM.SECURITY.DA.GOV/PUB (BUSINESS LISTINGS) – SD COUNTY FICTITIOUS BUSINESS NAMES
F. HTTPS://LAMESA.HOLLISTER.COM/SEARCH – CITY OF LA MESA BUSINESSES
G. HTTPS://ELCAJON.HOLLISTER.COM/SEARCH – CITY OF EL CAJON BUSINESSES
H. **LIBRARY OF CONGRESS – DECLARATION OF INDEPENDENCE, US CONSTITUTION, CITIZENSHIP, SELECTIVE SERVICE, PRESIDENT SPEECHES. THIS LIBRARY ISN'T AS GOOD AS IT SHOULD BE.**

FORUMS

1. HDE.COM – LINUX OPERATING SYSTEM (+ SOFTWARE)
2. SDBJ.COM – SAN DIEGO BUSINESS ARTICLES

DESIGN & HOW TO

A. STLFINDER.COM – 3D MODEL SEARCH ENGINE (LOTS)
B. SKETCHUPGUWARENOUSE.COM – 3D MODELS
C. SKETCHUP.COM – ONLINE 3D MODELING
D. TRIMBLECONNECT.COM – SURVEYING, SKETCHUP, PROJECT MANAGEMENT, TEXAS ETEL, FILE STORAGE, SOMETIMES ARTICLES/LISTING (HARDER TO ACCESS/USE FOR FREE.)
E. INSTRUCTABLES.COM – CUSTOM PROJECTS (AUTODESK)
F. MAKEZINE.COM – CUSTOM PROJECTS (RPI, ETC.)
G. BLUEBEAM.COM – PDF IN ARCHITECTURE, ENGINEERING, CONSTRUCTION INDUSTRY (TOUGH TO RUN ON LINUX)

RESEARCH & STANDARDS

1. ISO – INTERNATIONAL STANDARDS ORGANIZATION (DEFINING CONTAINERSHIPS, PDF FILE FORMAT, AND THE STANDARDS.)
2. WISCHOOLS.COM – MORE DETAILED WEBSITE DEVELOPMENT
(FOR ADVANCEDIST IT'S A GOOD START, THEN JUMP OUT AND LEARN IF YOU MUST. I BELIEVE PDF IS A BETTER STRATEGY, OR A 2D/3D GAMING ENGINE *HTML5=PRIVEY, ARDUINO ALSO STRATEGY)
3. UCSD ROBOTICS – NANO & SUPER COMPUTER
4. ROSS MECHANICAL ENGINEERING – QUALCOMM RELATED
5. GROSSMONT – FOUNDRY & JAVASCRIPT
6. CUYAMACA – SURVEYING AND DRONES
7. WREKHAM UNIVERSITY – WIN DRIVEN FAN, HIGH RPM
8. EXERT COMPOSITES – MATTS & PANELS
9. SCRIPPS INSTITUTE – BATHYMETRY & ROBOTICS
10. UNDERWATER ROBOTICS COMPETITION SAN DIEGO

SOCIAL ISSUES WHAT #MATTERS. WEAVE "MATTERS" INTO CONVERSATION

1. TERMLIMITS 2. DEFICITSPENDING/BALANCEBUDGET 3. VOTERID

A. SOCIAL SECURITY ACT OF 1935: 100% NEGATIVE RETURN ON INVESTMENT AS OF 2010 FOR ALL TIME. PRO SOCIAL SECURITY: "IT'S BETTER THAN NOTHING" IS NOT A MORAL OR ETHICAL ARGUMENT TO MAINTAIN AND STEALING, ALWAYS, ESPECIALLY WHEN YOU ARE RESTORED. THIS MEANS NETTING AT THE HIGHEST RETURNS IN THE COUNTRY. **SOCIAL SECURITY WAS THE LAW, ANYTHING WHAT IS IN THE ACCOUNT AS A PERCENTAGE WITHOUT INTEREST BECAUSE VOTERS DID A POOR JOB MANAGING THEIR GOVERNMENT) WHO WANTED TO PAY FOR. ANYTHING OVER A CERTAIN AMOUNT (PROBABLY $100,000) WOULD BE PAID OUT AS A LUMP SUM (SAY 20 YEARS.) AT 2% INTEREST, THAT'S $2,000 PER YEAR FOR 20 YEARS, OR $40,000 TOTAL. THIS WOULD BE A GOOD DEAL FOR MANY PEOPLE WHO HAVE PAID INTO SOCIAL SECURITY SINCE THEN + RENTERS ARE AT A DISADVANTAGE + PROPERTY IS UNAFFORDABLE. REPEAL THE LAW. ANYTHING ELSE IS UNCONSTITUTIONAL (ARTICLE 1, SECTION 8.)**
B. DEFICIT SPENDING – ALL FORMS OF CONSTITUTIONAL ARTICLE 1, SECTION 8 MOSTLY PORK BARREL SPENDING AND CORRUPTION. **ANYTHING BEYOND THAT IS OF LITTLE SIGNIFICANCE. ZERO WARS ARE IN PROGRESS, THE US MILITARY IS NOW ABOUT 10X BIGGER THAN IT NEEDS TO BE. CUT THE MILITARY BUDGET BY 90% AND THE COUNTRY WOULD IMMEDIATELY BE IN THE BEST SHAPE IN HISTORY. BRING ALL TROOPS HOME BOTH ABROAD AND WITHIN OUR OWN BORDERS BECAUSE MILITARY SPENDING. REAL MILITARY ASSETS ARE USED FOR BOTH COMBINED AND WARFARE. ANYTHING ELSE, THEY ARE DEAD WEIGHT. SALVE THE DEFENSE BUDGET & USE WHAT WE HAVE. ANYTHING ELSE KILLS CHILDREN AND LOWERS QUALITY OF LIFE (E.G. MEDICAL) DURING TIMES OF PEACE.**
C. **BALANCE BUDGET** – SEE ARTICLE 1, SECTION 8 + YANG + SHOWER/TOILET + **NO PRESIDENTIAL SPENDING AUTHORITY.** ANYTHING ELSE IS A CONSTITUTIONAL PROBLEM FIXED OVERNIGHT. SECTION 8 INCREASED MODERATELY COSTS BY ELIMINATING CAPITALIST BOOM AND BUSTING. **CHANGE BOOMS, AND MAKE BUSTS MORE TYPICAL. MIXED USE, MEDIUM DENSITY, MODULARITY, LIVE+WORK.** ANYTHING ELSE IS TOO SLOW 5 YEARS TO 10 YEARS TO 20 YEARS, ENOUGH TO BE ANNOYING BUT NOT ENOUGH TO FIX THE STREET MOVE QUICKLY (CHILDREN DIE, QUALITY OF LIFE DEGRADES.)
D. **TERMLIMITS** – ONE TERM FOR PRESIDENT, SENATE, HOUSE, SUPREME COURT = NO SUCH THING AS A PATH TRIAL BECAUSE NO INCARCERATED PERSON IS ALLOWED SLEEP OR FOOD UNTIL THEY ARE DEAD. **ANYTHING ELSE IS TOO SLOW 5 YEARS TO 10 YEARS TO 20 YEARS, ENOUGH TO BE ANNOYING BUT NOT ENOUGH TO FIX THE STREET MOVE QUICKLY (CHILDREN DIE, QUALITY OF LIFE DEGRADES.)**
E. **TERMLIMITS BEFORE LEGAL REPRESENTATION. REPEAL 14TH AMENDMENT + 17TH AMENDMENTS.** ANYTHING ELSE RESULTS IN LAWS THAT AREN'T WORTH HAVING BECAUSE THEY ARE NOT ENFORCED OR SHOWN BY; CONSTITUTIONAL ARTICLE 1, SECTION 8 OVERTURNED DECISIONS OR "LANDMARK CASES" AND POLITICAL JUDGE APPOINTMENTS.
F. **TERMLIMITS BEFORE LEGAL REPRESENTATION. REPEAL 14TH AMENDMENT + 17TH AMENDMENTS.** ANYTHING ELSE RESULTS IN LAWS THAT AREN'T WORTH HAVING BECAUSE THEY ARE NOT ENFORCED OR SHOWN BY; CONSTITUTIONAL ARTICLE 1, SECTION 8 OVERTURNED DECISIONS OR "LANDMARK CASES" AND POLITICAL JUDGE APPOINTMENTS.
G. **TERMLIMITS** – CONGRESS MUST BE IN THE SUN – THAT OFTEN DOESN'T WORK WHILE WALKING. GET SOME THAT WRAP INTO A TUBE (100 WATT INTO A PVC TUBE + SLOT), GLUE A FLEXIBLE ONE ONTO WHAT'S ALREADY IN THE SUN, OR A FRAMED PANEL ABOVE A LIVING AREA (A FRAMED SOLAR PANEL SHADES AND COOLS THE ROOF/INTERIOR & IS MORE EFFICIENT/LONGER LASTING TYPICALLY.) FLEXIBLE PANELS DON'T LAST AND HAVE LOW WATTAGE WHILE OVERHEATING EASILY. USB–C IS MATCHED AS ONE 240 WATT CABLE TO ONE 200 WATT PANEL, EXCEPT USB–C CABLES OFTEN BREAK QUICKLY AND ARE RARELY RATED FOR 240W, CERTAINLY NOT AT A REASONABLE PRICE.

COMPUTER

REFERENCE – **ARCHIVE.ORG** – DATA, BOOKS, MUSIC, THE ENTIRE INTERNET.
HARDWARE – **SINGLE BOARD COMPUTER (RASPBERRY PI5),** SMARTPHONE, TABLET, DESKTOP, LAPTOP, DATACENTER + IOT CHIPS (PI ZERO/PICO.)
SOFTWARE – **KDE** IS GOOD FOR LINUX SOFTWARE & IS FUNDED.

SMARTPHONE
– GOOGLE / ANDROID / **LINEAGE O.S.** (REMOVE GOOGLE SERVICES FOR SPEED, RELY ON ARCHIVE.ORG FOR APLICATION .APK)
– FAIRPHONE
– LIBREPHONE
– TUXPHONE
– www.makuluosf.com/tag/linux-smartphone-operating-systems/
– https://geekflare.com/dev/running-linux-on-android-phones/

LAPTOP
– O.S. DEBIAN+KDE LINUX
– **DELL REFURBISHED**
– HP REFURBISHED
– SYSTEM76 (COLORADO) – FAST, U.S. MOTHERBOARD
– TUXEDO/SLIMBOOK (SPAIN) – FAST + PRETTY + DURABLE
– BEST BUY (SOLID REFURBISHED COMPUTERS, TOOTHBRUSHES)

RASPBERRY PI
– O.S. DEBIAN/**RPIOS +KDE** LINUX (MANY X86/X64 BASED PROGRAMS WILL NOT FUNCTION, LIKE SKETCHUP (WEB PORTALS OR DESKTOP USE WITH STREAMING IS THE BACKUP.)
– **MONITOR GLASSES** (SHOOT FOR $300 AND U.S. MADE 2027) REMOTE FOR $100 IN THE MEANTIME.
– **"POWER RATED USB–C SPLIT CABLE TO** RUN PI + MONITOR + SPLIT KEYBOARD + MOUSE/TRACKPOINT (THIGH/DESK)
– LEAP MOTION (HAND TRACKING, OR ON GLASSES)
– WIRELESS MOUSE WITH REMOVABLE PLUG (RAZER OR MAKE)
– 96BOARDS.COM (LINKS TO SERVER S.B.C. SELLERS)
– RASPBERRYPI.COM – LINKS TO LOCAL PI STORES

DRONE/VEHICLE
– O.S. **ARDUPILOT** (REBOOT BETWEEN VEHICLE MODES)
– **3D ROBOTICS** ARDUPILOT (NEARLY DEFUNCT, LIKE SKETCHUP (WEB PORTALS OR DESKTOP USE WITH STREAMING IS THE BACKUP.)
– HEAGLESONE APM (NEEDS AI BASED SOFTWARE IMPROVEMENTS)
– RIP MOTORS, OR A FLOOD OF CHINESE ONES. OPTION: WIND THEM YOURSELF. DARPA LISTS MANY, THEY SEEM EXPENSIVE.

DESKTOP:
– **KUBUNTU** (UBUNTU STRIPPED TO KDE APPLICATIONS)
– PASSMARK.COM (BENCHMARKS)
– PCPARTSPICKER.COM (PART COMPARISONS)
– MOTHERBOARD: "ATX" OR "4U" BLADES. IDEALLY IN MINERAL OIL IN MINERAL OIL TANK WITH CHILLER + EXTRA EXCHANGER + COMPRESSOR/COOLER (LASER COOLER IS AN OPTION)
– AMAZON.COM OR MICROCENTER.COM FOR PARTS
– REFER TO BUY A CHINESE MOTHERBOARD. LOOK HARDER AT 4U OPTIONS. AVOID THE WATERCOOLING BLOCKS (EXPENSIVE)

LORAWAN
– "MESHCHATX" + LORA CHIP W/ **RETICULUM NETWORK STACK**

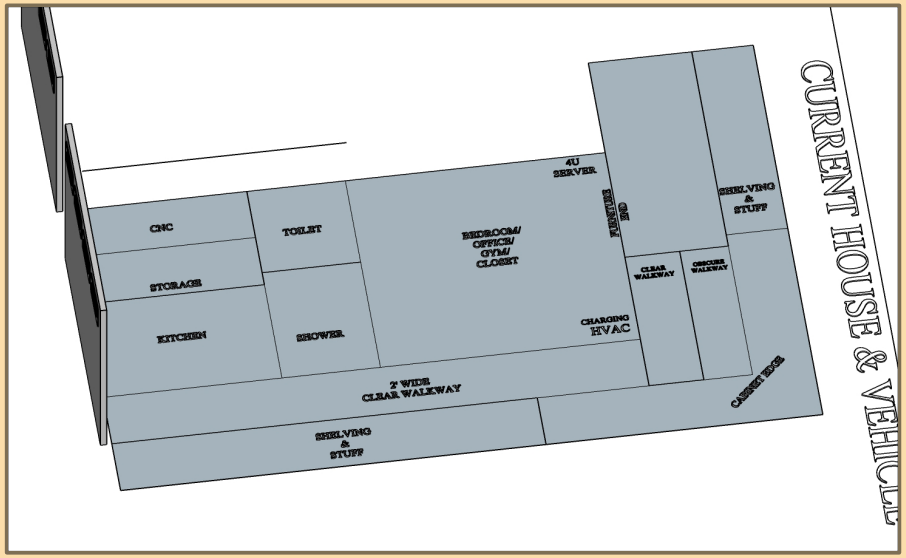
2025 MINIMUM COMPUTER SPECIFICATIONS
– M.2 MOTHERBOARD (NEW DESIGN, E.G. PIMORONI)
– 8GB MEMORY (ABSOLUTE MINIMUM, PUSH PAST 32GB)
– INTEL i7 OR AMD RYZEN 7/9
– USB–C POWER PLUG
– $200 REFURBISHED ON A GOOD DAY, $1200 NEW.
– SERVER: AMD EPIC CPU AND NVIDIA GPU (POWERFUL VALUE) TIE TO IBM OR OTHER GPU (QUANTUM.)

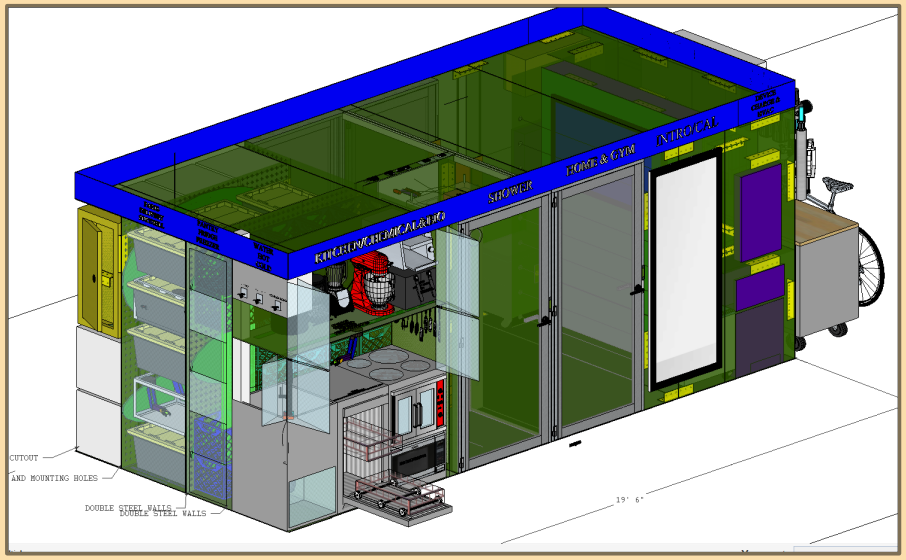
THERE ARE RAVEHOMES NEAR THE TRAINS IN SD
(MOST ARE BROKEN.)

COMPUTER SOFTWARE – MOSTLY LINUX
(FREE EXCEPT SKETCHUP LOCAL & CROSSOVER)
KDE SOFTWARE SUITE
1. **LIBRE OFFICE** – WORD/PRESENT/SPREADSHEETS/DRAWING (PDF), OR TRY OPENOFFICE.
2. **SKETCHUP** – 3D MODELING, OR SOLIDWORKS (RUN ON LINUX WITH CROSSOVER, INSTALL OFFICE & .NET FIRST.) STEAM HAS "BOTTLES" WHICH IS REFINED "WINE".
3. **SCRIBUS** – PUBLISHING ("NEWSLETTERICKS" G.U.I. (RUNS WINDOWS/APPLE SOFTWARE)
4. ULTIMAKER CURA– 3D PRINTING
5. OPENSCAD – 3D PROGRAMMING
6. BCNC – ROUTING
7. **CHROMIUM** – INTERNET BROWSER, ALLOWS FOR GOOGLE EXTENSION INSTALL WITHOUT LOGIN, NO GOOGLE SERVICES.
8. **KMAIL** + KONTACT – EMAIL
9. **LIBREOFFICE** – WORD PROCESSING & EDITING
11. KDE MARBLE – OFFLINE MAPS (OR LOCUSMAPS)
12. MAPBOX FOR ONLINE MAPS & ADVANCED USES
14. FREEFILESYNC – FOLDER/FILE SYNC
15. KTORRENT – OLD SCHOOL P2P FILE TRANSFER
16. DRAGON PLAYER – MEDIA PLAYER – FENEX FILETYPES
19. **KATE** – TEXT FILES & PROGRAMMING (OR NOTEPAD++)
20. **CALIBRE** – EREADER & MANAGEMENT. FREE + PURCHASES
21. **XEROOM** – NOTES SETTING FROM PHOTOS
22. CLOUDCOMPARE – POINT CLOUD REVIEW & PROCESSING
23. QGROUNDCONTROL

GARAGE LIVE/WORK EQUIPMENT LAYOUT& MACHINES

300X3 .COM





FILAMENT 3D PRINTER
4"x4"x4"
VORON 0.2

LASER POWDER BED FUSION
STAINLESS METAL POWDER,
4"X4"X4"
"SCRAP1" BY SCRAPLABS OR
SIMILAR (2 POWDER MINIMUM)

PLASMA CUTTING
CNC TABLE
(1/4" CUT DEPTH
MINIMUM, SWAP
FOR MURPHY BED)

MILESTONES:

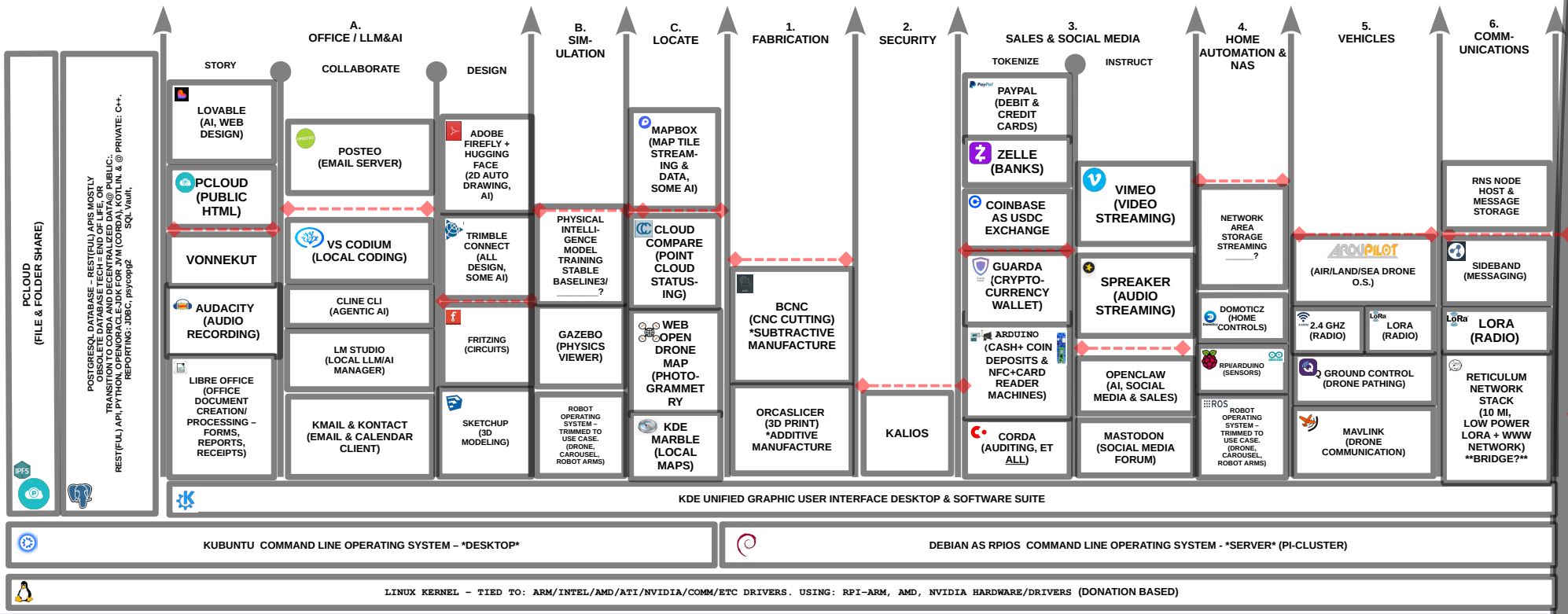
BUILDING: "OMNIFURNITURE" AND "PIONEER"
- 3/16" PLATE STEEL & CSIP CUTOUTS DESIGNED AND MANUFACTURED
- 3/16" PLATE STEEL & CSIP CUTOUTS ASSEMBLED AT GARAGE AREA

MACHINE FOR FABRICATION:
- 3D PRINTER FOR ADAPTER, LID, AND DRONE ASSEMBLED
- ADAPTER PRINTED (SMALL TEST UNIT), MODIFIED FOR REGULAR USE, AND SOLD.

DRONE:
- DRONE DESIGNED TO INCORPORATE LID, AND RPI COMPUTER CAN, 3D PRINTED, AND ASSEMBLED
- DRONE BEGINS GROUND AND FLIGHT TESTING]
- DRONE BEGINS WATER TESTING
- BOAT HULL MODIFIED WITH WELL FOR DRONE DROP IN
- DRONE REASSEMBLED AS ROBOT ARM

^^^

#0 - SYSTEM TOPOLOGY -SOFTWARE & HARDWARE


PCLOUD (FILE & FOLDER SHARE)
POSTGRESQL DATABASE - REST(FUL) APIS MOSTLY OSGI/ECLIPSE DATABASE TECH END API FOR TRANSITION TO CORDA AND DECENTRALIZED DATA@ PUBLIC:. REST(FUL) API, PYTHON, OPENORACLE-JDK FOR JVM (CORDA), KOTLIN, & @ PRIVATE: C++. REPORTING: JDBC, psycopg2 SQL Vault,
STORY
COLLABORATE
DESIGN
A. OFFICE / LLM&AI
B. SIM-ULATION
C. LOCATE
1. FABRICATION
2. SECURITY
TOKENIZE
INSTRUCT
3. SALES & SOCIAL MEDIA
4. HOME AUTOMATION & NAS
5. VEHICLES
6. COMM-UNICATIONS
LOVABLE (AI, WEB DESIGN)
PCLOUD (PUBLIC HTML)
VONNEKUT
AUDACITY (AUDIO RECORDING)
LIBRE OFFICE (OFFICE DOCUMENT CREATION/ PROCESSING – FORMS, REPORTS, RECEIPTS)
POSTEO (EMAIL SERVER)
VS CODIUM (LOCAL CODING)
CLINE CLI (AGENTIC AI)
LM STUDIO (LOCAL LLM/AI MANAGER)
KMAIL & KONTACT (EMAIL & CALENDAR CLIENT)
ADOBE FIREFLY + HUGGING FACE (2D AUTO DRAWING, AI)
TRIMBLE CONNECT (ALL DESIGN, SOME AI)
FRITZING (CIRCUITS)
SKETCHUP (3D MODELING)
PHYSICAL INTELLI-GENCE MODEL TRAINING STABLE BASELINE3/ _____?
GAZEBO (PHYSICS VIEWER)
ROBOT OPERATING SYSTEM – TRIMMED TO USE CASE. (DRONE, CAROUSEL, ROBOT ARMS)
MAPBOX (MAP TILE STREAM-ING & DATA, SOME AI)
CLOUD COMPARE (POINT CLOUD STATUS-ING)
WEB OPEN DRONE MAP (PHOTO-GRAMMETRY
KDE MARBLE (LOCAL MAPS)
BCNC (CNC CUTTING) *SUBTRACTIVE MANUFACTURE
ORCASLICER (3D PRINT) *ADDITIVE MANUFACTURE
KALIOS
PAYPAL (DEBIT & CREDIT CARDS)
ZELLE (BANKS)
COINBASE AS USDC EXCHANGE
GUARDA (CRYPTO-CURRENCY WALLET)
ARDUINO (CASH+ COIN DEPOSITS & NFC+CARD READER MACHINES)
CORDA (AUDITING, ET ALL)
VIMEO (VIDEO STREAMING)
SPREAKER (AUDIO STREAMING)
OPENCLAW (AI, SOCIAL MEDIA & SALES)
MASTODON (SOCIAL MEDIA FORUM)
NETWORK AREA STORAGE STREAMING _____?
DOMOTICZ (HOME CONTROLS)
RPI/ARDUINO (SENSORS)
ROS ROBOT OPERATING SYSTEM – TRIMMED TO USE CASE. (DRONE, CAROUSEL, ROBOT ARMS)
ARDUPILOT (AIR/LAND/SEA DRONE O.S.)
2.4 GHZ (RADIO)
LORA (RADIO)
GROUND CONTROL (DRONE PATHING)
MAVLINK (DRONE COMMUNICATION)
RNS NODE HOST & MESSAGE STORAGE
SIDEBAND (MESSAGING)
LORA (RADIO)
RETICULUM NETWORK STACK (10 MI, LOW POWER LORA + WWW NETWORK) **BRIDGE?**
KDE UNIFIED GRAPHIC USER INTERFACE DESKTOP & SOFTWARE SUITE
KUBUNTU COMMAND LINE OPERATING SYSTEM – *DESKTOP*
DEBIAN AS RPIOS COMMAND LINE OPERATING SYSTEM - *SERVER* (PI-CLUSTER)
LINUX KERNEL – TIED TO: ARM/INTEL/AMD/ATI/NVIDIA/COMM/ETC DRIVERS. USING: RPI-ARM, AMD, NVIDIA HARDWARE/DRIVERS (DONATION BASED)

YOU

RASPBERRY PI CAN
$400
- RPIOS (DEBIAN) / KALIOS
- SLOTS INTO DRONE OR LAPTOP
- CONTROLS: LID AND VARIOUS APPLIANCES, REMOTE OPTION VIA BLUETOOTH/WIRELESS HDMI

LAPTOP/GROUND STATION
$600
- BATTERIES, MONITOR, ADDITIONAL ANTENNAS

AUTOPILOT PUCK
$160
- 3DR N1 (ARDUPILOT OS)

WEARABLE:
$1,300
- STEAM FRAME GOGGLES/COMPUTER, STEAM OS (ARCH LINUX) HAND TRACK & CONTROLLERS ~
- CUSTOM KEYBOARD OS (ZMK) $300
- CONTROLS: DESKTOP COMPUTER, WEARABLE CAN, DRONE, LAPTOP
- MOUSE/GLOVE OPTION
- ALTERNATIVE: VIDEO GLASSES/HEADSET ONLY (NOT USABLE FOR DRONE WITHOUT LONG RANGE ANTENNAS)

DESK

DESKTOP – *E*-ATX AIR/WATER COOL: (AMD CPU X1-2, NVIDIA GPU X2-4)
$3,000-*$7,000*
- KUBUNTU OS
- OFFICE
- DESIGN (2D & 3D)
- AUDIO/VIDEO RECORDING
- BROWSER
- MEDIA

A. NVIDIA GPU - LANGUAGE MODELS/AI
B. NVIDIA GPU - SIM: GAZEBO, ISAAC, ROS2, ARDUPILOT
C. NVIDIA GPU - PHOTOGRAMMETRY AND MAP HOSTING (WEBODM, KDE MARBLE)

CAPACITY INCREASE
(REPLACES E-ATX DESKTOP AND RPI CLUSTER COMPUTERS)
SERVER RACK, IMMERSION COOLED
$200,000
- KUBUNTU OS
- UPGRADE FROM E-ATX DESKTOP AND RPI CLUSTER
- CHEST FREEZER + SEALANT
- SERVER RACK ON BACK
- DIELECTRIC FLUID
- PUMP & SPLIT SYSTEM HVAC UNIT

~ 20U BLADES; 4U (GPU)-SIM, 4U (GPU)-MAP, 4U (GPU) – AI, 6: 1U (ALL OTHER CLUSTER USES)

SERVER

RASPBERRY PI & JETSON CLUSTER:
$2,000
DESKPI SUPER6X (PROBLEM: RPI COMPUTE MODULE 4 ONLY, 1/3 THE SPEED AS CM5 X6 IS NOT ACCEPTABLE)
---
1. RPIOS (DEBIAN) – FABRICATION (CNC, 3D PRINTING, ORCASLICER)
2. RPI KALI LINUX OS (DEBIAN)- SECURITY , OPENWRT, UFW, CLAMAV, OPENBSD, ETC.
3. RPIOS + AI HAT OR LLM OPTIMIZING - CORDA (SALES/ID) & SOCIAL MEDIA POSTING (MASTODON & OPENCLAW)
4. RPIOS (DEBIAN) – DOMOTICZ (HOME AUTOMATION) & NETWORK AREA STORAGE
5. RPIOS (DEBIAN) – VEHICLE CONTROL (QGROUNDCONTROL)
6. RPIOS (DEBIAN) – COMMUNICATIONS ARRAY (RETICULUM NETWORK STACK) – NEAR ANTENNAE

WHY?
- RPI CAN/AUTOPILOT/LAPTOP/GROUNDSTATION/WEARABLE: THESE ARE WITH USERS ALL THE TIME AND FUNCTION FOR PERSONAL USE OR AUTOMATED DRONE/VEHICLE USE. HUMANOID/ANIMAL/ETC ARMS ATTACH EASILY TO THE CANRAD DRONE (SWAP PROPELLERS FOR SHOULDERS/ARMS.)
- RPI CLUSTER DOES THE REPETITIVE WORK AND CAN BE UPGRADED INDIVIDUALLY WHILE MAINTAINING 1TB STORAGE PER USE CASE AS DEDICATED M.2 DRIVES, 6TB+ TOTAL. THESE ARE ONLINE ALL THE TIME.
- DESKTOP COMPUTER RUNS HEAVY GPU TASKS WITH A HUMAN ON THE LOOP/CONTROLLING CUSTOMIZATION/DEVELOPMENT. DESKTOP CAN BE TAKEN OFFLINE/RESTARTS REGULARLY OR ITS AI/LLM CAN BE CALLED VIA ITS LOCAL IP ADDRESS BY THE RPI COMPUTE CLUSTER WHEN NEEDED. OTHERWISE IT CRUNCHES SIMULATION AND PHOTOGRAMMETRY DATA MOST OF THE TIME AND DOES OFFICE STUFF ON THE SIDE.

W.W.W. "FRONT END"
L.A.N. "BACK END"
SOFTWARE
HARDWARE

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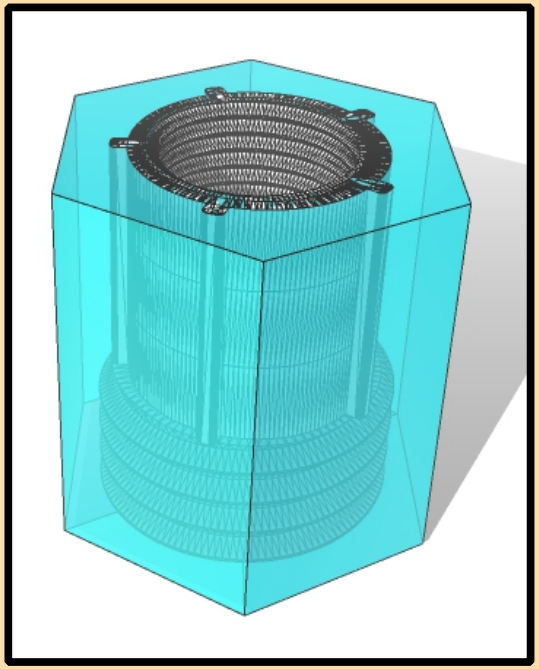
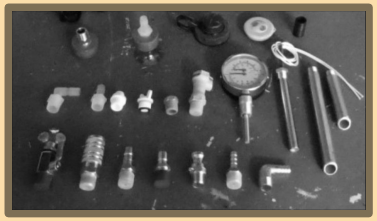
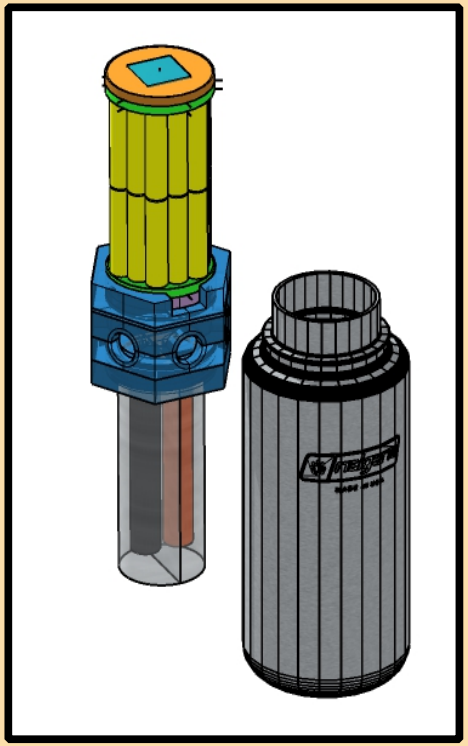
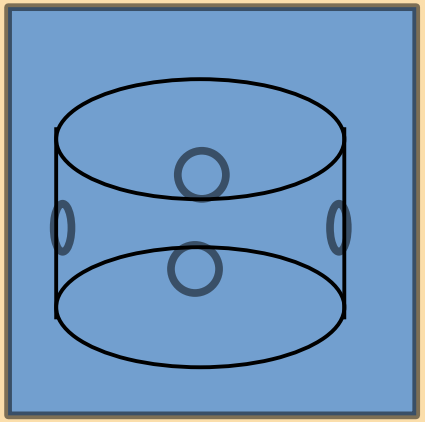
#1A. #1B. ADAPTER AND SMART BOILER









WATER BOTTLE ADAPTER TO FRICTION FITTING WITH HOSE

SODA BOTTLE HACKS OR CONNECTION TO
STEAM UNIT "PROTE" (BELOW) VIA TUBE = STEAM IN BOTTLE

HUNTING: SALT EMBALMING, SAP/HONEY COLLECTION, SCENTING

SIPHON & CAPILLARY-SUCTION: FUEL, BIRD BATH, FISH TANK

SAMPLE COLLECTION: BODY, WATER, AIR, STERILIZATION

ANY .5" NPT THREADS: ACCESSORIES & FRICTION FITTINGS

WATER BOILER & KETTLE

CHEMISTRY: REFINING, HYDROGEN AND OXYGEN GAS MAKER (ELECTROLYSIS), HEATING, DISTILLING & DECANTING

MOTOR MOUNT: THREAD THE STATOR OR ROTOR/AXLE OF A MOTOR AT .5" NPT TO ATTACH IT TO THE LID/MOTOR MOUNT

CHASSIS AXIAL MOUNT: SWAP THE BOTTLE AREA FOR AN ATTACHMENT TO A CHASSIS/ARMATURE

MANIFOLD: EACH .5" NPT FITTING IS A MANIFOLD CONNECTION, WITH OR WITHOUT A VALVE

FOOD: PRESSURE COOKER, 3 COMPARTMENTS
(1 WET, 1 STEAM, 1 DRY)
STEAM COOKING, DIM SUM, COOLING, STORAGE

WATER: DRINKING TUBE CLEAN WATER, GRAVITY PLUMBING (SHOWER, SINK), MISTER, KETTLE (WATER BOILER), CENTRAL BOILER: UP TO 4 ADDITIONAL VESSEL CONNECTIONS
DRINK SHARE: BOOZY, BOBA

MEDICAL: STERILIZATION (MEDICAL TOOLS), BLOOD CAPTURE, WASTE COLLECTION WHEN COMBINED WITH THE ADAPTER

FUEL:
CAPACITOR/BATTERY, FUEL TANK

NALGENE THREADED CONNECTION, ANY .5" NPT THREADS:
ACCESSORIES & FRICTION FITTINGS

ANY FUEL SOURCE:
INSULATED STAINLESS VESSELS
ELECTRIC POWERED: PLUG OR BATTERY
UNINSULATED STAINLESS VESSELS
ANY FUEL SOURCE: ELECTRIC, COAL,
WOOD (BAILER), GAS BURNER, STERNO, INDUCTION
(CERAMIC + STEEL WASHER INSIDE)

FUTURE DESIGN UPDATES:

- CYLINDRICAL LID
(WHY: WEIGHT REDUCTION, AERODYNAMICS, ORIENTATION)
- FOUR .5" NPT THREADED INSERTS
- MAIN CYLINDER THREAD INSERT IS REMOVABLE FOR DIFFERENT BOTTLE THREADS
- COMPUTER/BATTERY QUICK RELEASE

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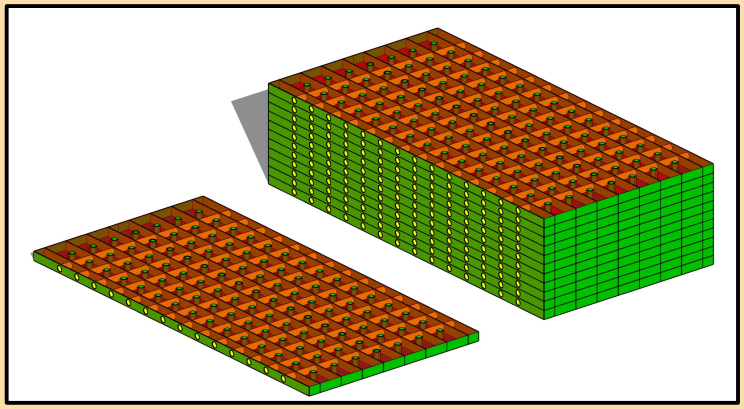
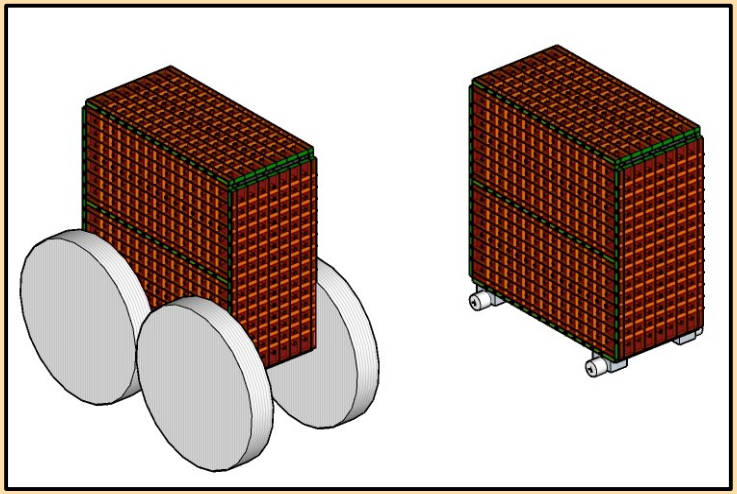
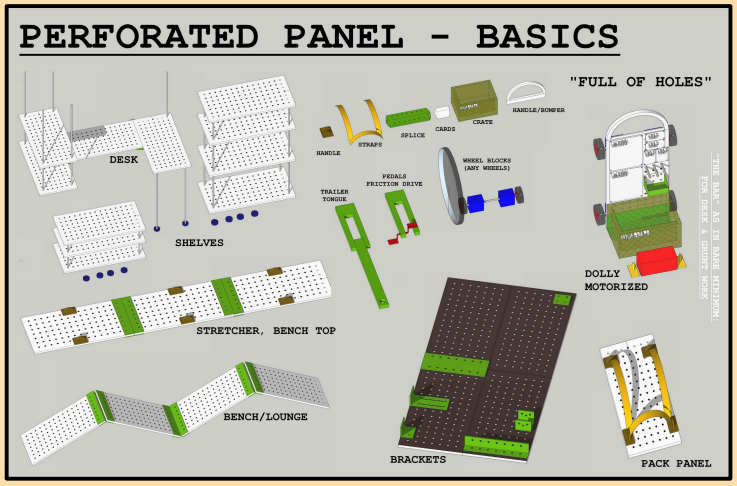
#2. CART AND FUEL TANK, MODULAR PANEL







GENERAL:
- PIPE CYLINDERS THREADED THROUGH CORRUGATED SHEETMETAL WITH FIRE SUPPRESSING INSULATION IN VOIDS. FACILITIES POWER STORAGE, STRUCTURE, HEAT EXCHANGER (LIQUID, GAS, OR ELECTRICITY)

REQUIRES RIGID BRACKETS, .5" ALLTHREAD CAN CONNECT PANELS BUT WILL RACK/BEND EASILY. AVOID SLEEPING ON UNLESS YOU HAVE A PAD AND MAINTAIN A COMPLETELY FLAT SURFACE.

WORKS AS PLYWOOD, CAN BE MODIFIED WITH SOME WORK, DOESN'T GET DESTROYED LIKE PLASTIC BOXES. BETTER AS SHEETMETAL OR PERHAPS STEEL PLATE FOR LARGE STRUCTURES. SIMILAR TO PEGBOARD OR AN ERECTOR SET. CUSTOM FURNITURE/FUSELAGES TYPICALLY WORK BETTER BUT ARE TYPICALLY NOT MODIFIABLE OR AS INEXPENSIVE.

REAL VALUE: LIGHTWEIGHT SHEETMETAL/PIPE STRUCTURE WITH EMBEDDED FUEL/BATTERY AND STRONG BRACKETS GETS YOU A VEHICLE/STRUCTURE WITH EMBEDDED & INSULATED FUEL TANK/BATTERY. HOWEVER, THIS IS MUCH MORE EXPENSIVE THAN PLYWOOD ALONE.

BACKPACK: FRAME, TIE BUNDLES AND BAGS TO.

MODULAR STRUCTURE: DECK, CEILING, WALL, FLOOR, FUSELAGE, EXTERIOR PANELING, GATE & FENCE, LIGHTING, SIGNAGE

FURNITURE: BENCH, SHELVES, DESK, COT, STRETCHER, COOLER TOP

VEHICULAR DECK PLATE:
CART, GOKART, SKATEBOARD, BOAT, SUBMARINE, CART, DOLLY, RECUMBENT BICYCLE, WHEELCHAIR, DRONE, PLANE

BATTERY HOLDER:
18650, AA SIZE BATTERIES. MAINTAIN TEMPERATURE, FLAME RETARDANT POWDER AROUND AS WITH GASEOUS FUEL, SWAPPABLE BATTERIES.

GASEOUS FUEL TANK:
HYDROGEN, OXYGEN, NATURAL GAS. INSULATION/ABC POWDER INSULATES THE COMBUSTIBLE FUEL ALLOWING FOR HIGHER PRESSURE AT LOWER TEMPERATURE AND CREATES A FLAME BARRIER.

WATER TANK:
POTABLE, FILTRATION SYSTEM (MULTIPLE STAGES/FILTERS AS TYPICALLY REQUIRED FOR SALT WATER,) HYDRONICS (TEMPERATURE EXCHANGE SIMILAR TO A RADIATOR), FLOW BATTERY (MOVEMENT OF LIQUID CREATES AND HOLDS ELECTRICITY)

CONSTRUCTION SHEET GOOD:
ADDS FUEL, POWER, STRENGTH, AND MODULARITY TO STANDARD PLYWOOD & GYPSUM USE-CASES. CURRENT FOCUS IS ON STEEL PLATE SIDES (FOR STRUCTURE, AND THESE PANELS AT THE CEILING FOR BATTERIES AND HOT WATER *CLOSE TO SOLAR PANELS AND SOLAR WATER HEATING)

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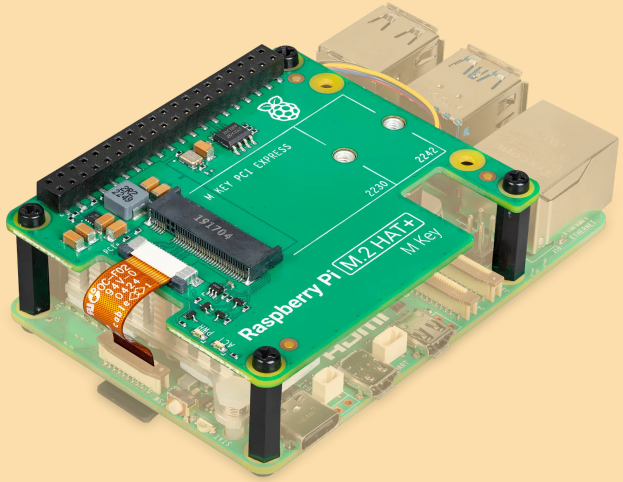
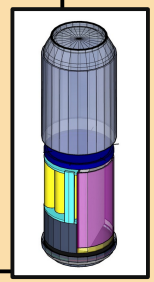
#3. WEARABLE COMPUTER

RPI5 + DECK OF CARDS MODULE CASE





SPLIT KEYBOARD + BELT/FRONT POCKET CLIPS

VIDEO GLASSES

MINIMUM:
- 1080P RESOLUTION AT EACH LENS
- "PANCAKE LENSES" OR "WRAPAROUND"
- RPI COMPATIBLE VIDEO CONNECTION: HDMI, USB FOVEATED STREAMING, ETC.

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PERSONAL COMPUTER (LAPTOP/PHONE

CAN PRIMARY CASE
- HOLDS SUBCASES: RPI5, BATTERY, AUDIO, SCREEN)
- SIZE OF A 12OZ CAN, HOLDS VARIOUS MODULES
- ATTACHED TO PROTE FOR CHEMISTRY CONTROL AUTOMATION

SINGLE BOARD COMPUTER MODULE CASE
- DECK OF CARDS CASE FOR "CREDIT CARD COMPUTER" FORM FACTOR (ANY COMPUTER UNDER 2.4" WIDTH, 4" LENGTH, AND ~.5" HEIGHT, USUALLY A RASPBERRY PI 5 OR RPI5 COMPUTE)

BATTERY MODULE CASE (3+2 STACK)
- 18650 BATTERY SIZE, BASIC BMS, CHARGING BY USB-C

AUDIO MODULE CASE
- SPEAKER, HEADPHONE JACK, AUDIO IN (AMPLIFICATION)

SCREEN/LIGHT MODULE CASE
- 4 ALARMS, TIMER, DATE, TIDE
- LIGHT (AREA), LIGHT (DIRECTIONAL), ANCHOR & TRICOLOR FOR BOATING

RADIO MODULE CASE
- *LISTEN* TO AM, FM, WEATHER; *SEND & RECEIVE*: UHF, VHF; *DATA*. WIFI, *BLUETOOTH, LORA, MICROWAVE*

AUTOPILOT MODULE CASE

AUXILLARY CASES:
- *DRONE RELATED (BATTERY/ESC/MOTOR)*
- APPLIANCE RELATED (INDIVIDUAL APPLIANCE TYPES)
- VEHICLE RELATED (HUMAN SIZED VEHICLE REQUIREMENTS)

STANDARD PC USE:
- LINUX DESKTOP SOFTWARE, WORD PROCESSING, LOG VIEWING (DATABASE,) EMAIL COMPOSE AND SEND, PDF VIEW/LISTEN/EDIT, OFFLINE MAPS, MUSIC
- PERSONAL (DESKTOP APPLICATIONS, BROWSER, EMAIL), INDUSTRIAL (PDF DISPLAY OF INSTRUCTIONS & 3D OVERLAYS),

AUDIO & TEXT BIBLE (ESV):
BRITTANICA, FATHER SON LIBRARY, WIKIPEDIA, ETC

HOME AND VEHICLE CONTROL:
- IOT & SMART DEVICES WITH WIFI, 2.4 GHZ, AND LORAWAN RADIOS

COMPANION COMPUTER:
- RAPID ATTACHMENT TO DRONE/ROBOT, LARGER VEHICLE, OR STRUCTURE

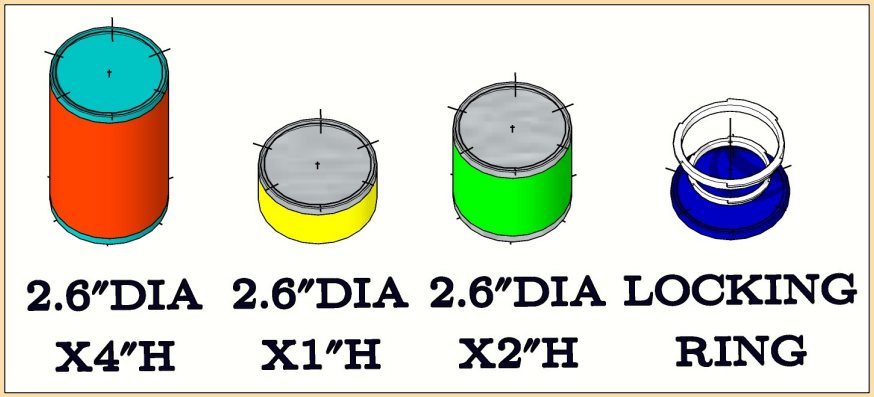
MIXED REALITY INTERFACE

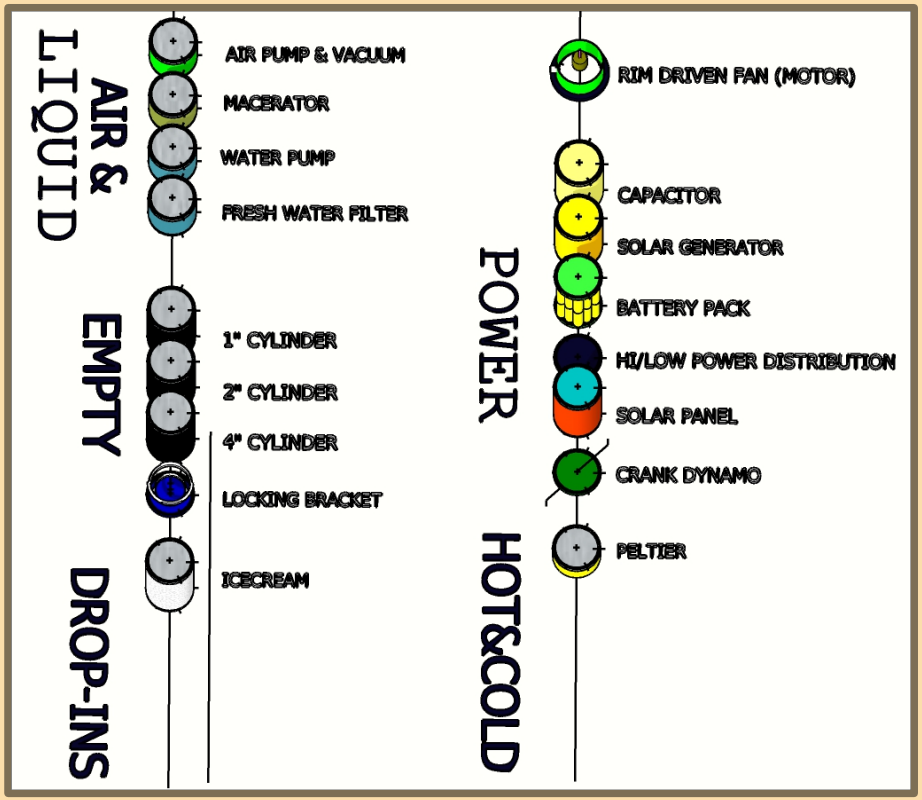
WEARABLE COMPUTER: SIT, STAND, LAYDOWN, WALK/RUN, ETC.

KEYBOARD & MOUSE: (BLUETOOTH)
- LILY58 SPLIT KEYBOARD WITH TRACKPAD
- AUX: ULTRALEAP, STANDARD MOUSE, VOICE INPUT, HAND TRACKING VIA SMART WATCH OR GLASSES OR SMART GLOVES

ISSUE: AVAILABILITY OF WATERPROOF INPUT PERIPHERALS AND SMART GLASSES

#4. TOOLS & APPLIANCE SET





USE CASES & FEATURES

CYLINDER HOUSING FOR APPLIANCES AND POWERTOOLS WITH QUICK-RELEASE ATTACHMENT TO ROBOTIC ARM

3 CYLINDER SIZES:
- ~12OZ CAN SIZE @ 2.6" DIAMETER AND 1", 2", 4" HEIGHTS, EACH WITH A UNIVERSAL LOCKING RING AT BOTTOM (ACTS AS BOTH A MALE AND FEMALE SOCKET) OPEN END OF CAN HAS A SCREW-IN CAP WITH A LOCKING RING

LOCKING RING:
- SIMILAR TO A 3 POINT CAMERA LENS MOUNT AND RELEASE, MODULAR PUCKS ATTACHED BY LOCKING RINGS & 4 PIN LOW/HIGH VOLTAGE

INLET + OUTLET CAP:
- UNIVERSAL INLET/OUTLET FOR AIR, WATER, POWER INTO SELECTED CYLINDER

CYLINDER CONTENTS

POWER:
- BATTERY HOLDER FOR 18650 & AA SIZES (DIAL ON/OFF FOR USE WITHOUT MICRO-CONTROLLER/COMPUTER), CHARGER, LOW/HIGH VOLTAGE SPLITTER, ROLLED SOLAR PANELS, CAPACITOR PEDAL CRANK CHARGER (ARM AND PEDAL), AC/DC INPUT & INVERTER (PLUGS: XT60, USB-A, USB-C, BANANA + CAR JUMPER, 1 NEMA 5-15R OUTLET, 1 NEMA C5 AC PLUG RECEPTACLE)

WATER:
- .5" NPT CONNECTIONS, WATER PUMP, WATER FILTER, WATER MACERATOR/PUMP (GARBAGE/WASTE DISPOSAL), HOUSING, FAN/SCOOP - WATER PUMP, .5" NPT TO GHT ADAPTER

AIR:
- PUMP/VACUUM (TIRE, INFLATABLE, HOME, CAR, RESTAURANT CRUMB CATCHER)

COOLING/HEATING:
- ELECTRIC COILS (RAPID AIR/WATER HEATING)

FOOD:
- HOT/COLD PELTIER PANEL FOR 1 COOL CHAMBER AND 1 HOT CHAMBER
(4" EMPTY CYLINDERS AT EITHER SIDE OF A 1" PELTIER CYLINDER)

CANNING:
- AIR REMOVAL AND VACUUM SEALING

DROP-INS:
- SPATULA, IMMERSION BLENDER, ICE CREAM MIXER

MOUNT:
- FLOOR (FOOT PEDALS), WALL (HOLDER & CHARGING)

USB-C PLUGIN ACCESSORIES:
- EXISTING PRODUCTS: SOLDERING IRON, DREMEL, FAN, LIGHT STRING

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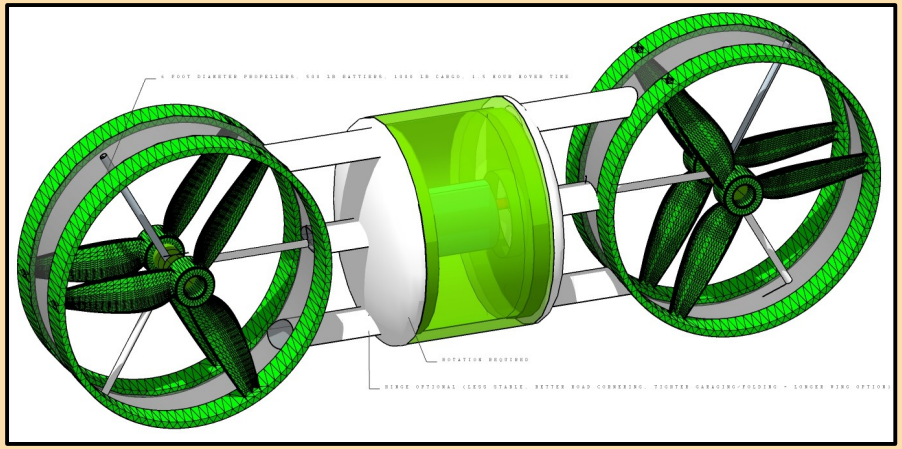
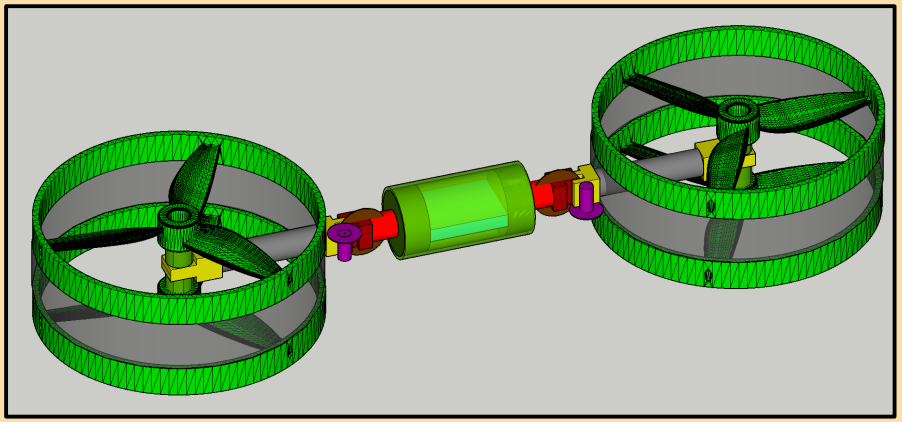
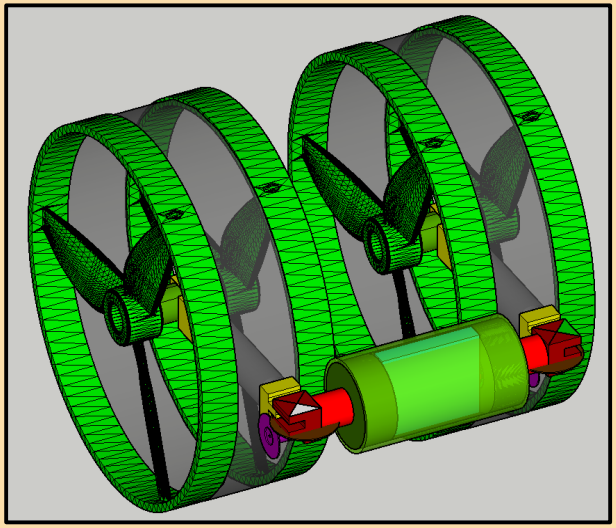
#5. ROBOT - AIR/LAND/SEA/PACK







SINGLE HAND
CONTROLLER + RADIOS

CANRAD AIR/LAND/SEA DRONE

CONCEPT:
- TWO HIGH TORQUE, HIGH RPM BOW THRUSTERS (IDEALLY KORT PROPELLERS WITHOUT A CENTER AXIS)AND A STABLE CENTER AREA FOR COMPUTER/CARGO. THERE ARE 3 TOTAL SECTIONS WITH INDEPENDENT POWER SUPPLIES, CONNECTED BY SHORT RANGE RADIOS FOR MOTOR SIGNALS (MOTOR RADIO SIGNALS ARE WITHIN A SLIPRING EQUIVALENT HOUSING AND CAN EASILY BECOME PHYSICAL CONNECTIONS.)

MECHANICAL:
- 2 BRUSHLESS MOTORS>CYLINDER ARM W/ BATTERIES>HINGE W/ WORMDRIVE>PLANETARY MOTOR/GEAR W/ ENGAGE/DISENGAGE PIN BETWEEN CENTER CYLINDER & HINGE ARMATURE>CENTER TRAYAPM. SAME OPPOSITE.
- *CYLINDER ROTATION, TWO STANDARD BRUSHLESS MOTORS ON THE AXIS OF ROTATION*

CARGO
- ENLARGE CENTER CYLINDER/TRAY FOR 6 CYLINDER MAGAZINE OR ANY TRACTOR/CONSTRUCTION EQUIPMENT. *PAIR WITH 300X3.COM "APP CANS" FOR ANY USECASE (VACUUM, WATER PUMP/FILTER, CAR JUMPER, BOILER, CHILLER, ETC.)*

STRUCTURE
- *STAINLESS OR NYLON+FIBER (METAL POWDER OR FILAMENT MANUFACTURING)*
- *ARMS/WINGS: BATTERIES/FUEL INSIDE, THESE ROTATE WITH THE FAN/PROPELLER SIDE THEY ARE ON.*
- *LID: A PROTE LID CAN BE USED TO MOUNT THE MOTORS IN LIEU OF THE EXTENDING AND FOLDING ARMATURES. THIS MAKES FOR A MORE STRUCTURAL ATTACHMENT, WHILE THE PROPELLERS OVERLAP THE FUSELAGE MORE.*

AUTOPILOT:
- *ANY APM UNDER 2.4" WIDTH/DIAMETER, 3DR N1 PREFERRED*
- *COMPUTER AND AUTOPILOT MODULE WITH BATTERIES AND RADIOS AT CENTER*
- *RASPBERRY PI5 COMPUTER FOR INSTRUCTION PROCESSING AND MISSION UPDATES.*
- *CAMERA1, CAMERA2 (BACK TO BACK, EXTENDED TO FACE OF FUSELAGE.*

BATTERY PACK:
- *THREE 18650 BATTERY PACKS (1:3 MOTORS, 1:3 MOTORS, 1:COMPUTER, RADIO, CAMERA, AUTOPILOT MODULE)*

ELECTRONIC SPEED CONTROLS:
- *GROUPS OF 3 ESC: 3 MOTORS. 2 PACKS*

RADIO:
- *LORA, 2.4GHZ (LONG RANGE INSTRUCTION UPDATES, PROBABLY TO THE RASPBERRY PI FOR DETAILED MISSION UPDATES.)*

MOTORS:
- *PROPULSION OPTION1:*
RIM DRIVEN FAN AKA "PRIME RDF" FROM 300X3.COM BOOK
- *PROPULSION OPTION2:*
FAN DUCT
LID/MOTOR MOUNT
PROPELLER WITH CIRCUMFERENTIAL WHEEL
BRUSHLESS MOTORS

PROPS:
- *PROPELLER WITH CIRCUMFERENTIAL CIRCLE/WHEEL*

WINGS:
- *EMBEDDED IN STRUCTURE, STACKED STRUCTURAL WINGS AND FUEL/BATTERY TANKS ATTACH THE DUCTED FANS TO THE ROTATING CENTER FUSELAGE*

LIGHT:
- *EMBEDDED AT CENTRAL ARMS/COMPUTERS NEAR CAMERAS. DIRECTIONAL, FRONT (WHITE) AND REAR (RED), TRI-COLOR (BOATING), TURN-SIGNAL (BIKE&VEHICLE)*

IMAGING:
- *STANDARD CAMERA LENS MOUNT, LIDAR LASER, MULTI-SPECTRAL, SONAR (BATHYMETRY) - OPTION TO MOUNT AT CENTER FUSELAGE CAN.*

CANRAD USECASES:

CARRY ANY SIX "APP CANS" FROM 300X3 PRODUCT #4 TO INCREASE THE NUMBER OF USE CASES.

BASIC
- FLY, DRIVE (TRANSPORT), SUBMARINE, BALLOON BASKET, ROBOT ARM, BOAT INBOARD MOTOR, PERSONAL FAN, BACKPACK

BACKPACK
- MEDIUM DRONE SIZE CARRIES A 6 PACK OF 12OZ CANS, EACH CAN AS EITHER STORAGE OR WITH A SPECIFIC APPLIANCE USE FROM PRODUCT #4
- BACKPACK FEATURE IS A BACKPACK PLATE WITH STRONG MAGNET FOR ATTACHING THE DRONE, ALLOWS FOR INSTANTANEOUS LAUNCH OF THE DRONE FROM THE BACKPACK, OR FROM A VEHICLE.

ROBOT ARM- CLEANING
TOILETS, FLOORS, LAUNDRY, DESKTOP ASSEMBLY

CAN APPLIANCE
- HYDRATION PACK
- WATER BOILER
- CHEMISTRY SET
- WATER PUMP
- FAN
- BATTERY
- ROLLER SOLAR PANEL
- AIR PUMP
- DESK VACUUM
- MACERATOR
- WATER FILTER
- ICECREAM MAKER
- SOLAR GENERATOR
- LIGHT: DIRECTIONAL, LAMP, BOAT, BIKE
- SPEAKER

COMPUTER
- AUDIOBIBLE
- WEARABLE PC/SMARTPHONE

VEHICLE
- MOTORCYCLE
- COPTER (2 ROTOR)
- PLANE (VTOL, TAILSIT)
- SUBMARINE
- AEROSTAT/BLIMP PROPULSION
- POWERED WHEEL
- DUAL PERSONAL FAN
- TRACTOR
  - AUGER
  - DIGGER
  - TILLER
  - SEED PLANTER
  - HARVESTER
  - IRRIGATOR

CONSTRUCTION
- BOTTOM DUMP (EARTH/PRODUCT)
- STEAMROLLER
- BULLDOZER
- MOWER
- HEAVY MATERIAL GRINDER

MEDICAL
- SLEEPING / RECOVERY BED
- MEDICAL OPERATING & ARMATURE
- IMAGING

ROBOT/DRONE
- CLEANER (VACUUM & MOP)
  - FLOOR AND SOLAR PANEL
- STORAGE MOVER (FULFILLMENT)
- CAN/COOLER DELIVERY
- 5 GALLON & 55 GALLON DELIVERY
- ROBOT ARM

POWER TOOLS
- ANYTHING

BUILDING
- FAN, VENTILATION, HVAC, AIR FILTER PUMP, H2O

MAPPING
- LIDAR, CAMERA, MULTISPECTRAL

HANGAR/TRANSPORT
- TIGHT PACKING IN SIX PACK
- CARDBOARD CASE

FIRE:
- ABC POWDER CAN/PACKET MORTAR DROP (FIRE LINE CREATION & HOTSPOT DROP)

TRANSPORT:
- CARGO (CAN), CARGO (BOX), CLEAR & GRUB

RESEARCH:
- WATER SAMPLE

ENERGY:
- SOLAR WASHING, PANEL TESTING FOR VOLTAGE

CLEANING:
- FLOOR VACUUM AND MOP

FARMING:
- TRIMMER, WEED, PLOUGH, SEED DRILL, STEM CUTTER & FRUIT HOLDER, WATER SPRAYER & MISTER

LIVESTOCK:
- HERDING, MEDICAL SHOTS, TAGGING

MINING:
- UNDERWATER VACUUM (SILT)

CONSTRUCTION:
- EARTH SCRAPER, EARTH DIGGER, BOTTOM DUMP

AQUACULTURE (FISHING):
- NET SPREADER, FILTER, MEDICAL TREATMENT, DEAD MATERIAL REMOVAL

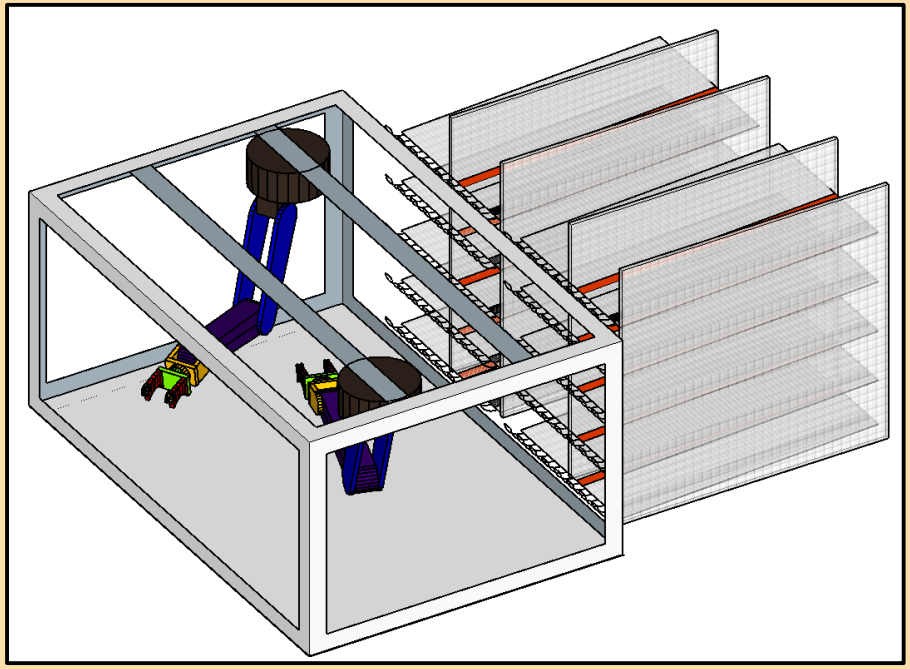
OIL&GAS:
- PIPE LAYING, PIPE WELDING, PIPE REPAIR

HUNTING:
- PREY IDENTIFICATION & TRACKING

DOG:
- P.A. SYSTEM, LIGHTS, VIDEO RECORDING

PNEUMATIC LAUNCHER:
- SHORT RANGE LAUNCH (T-SHIRT LAUNCHER)

#6. AUTOMATION - VEND/HANGAR/COOLER/ASSEMBLY



ASSEMBLY UNIT, ORGANIZER,BATTERY-SWAP, VEHICLE REPAIR AND LOADING, COOKING

SAME FRAME/BOX FOR CAROUSEL SLEDS THAT CARRY MILK-CRATES AND TOTES.

DESIGN FEATURES

ADJUSTABLE SIZE:
- COOLER DROP-IN, LAZY SUSAN CORNER, VENDING MACHINE TOPPER

CNC:
- AUTOMATED STORAGE ORGANIZING, DISPENSING, SALES, BASIC ATTACHMENT AND DRONE PARTS SWAPPING, LAUNCH

REFUEL:
- BATTERY BAY CHARGING, TANK SWAP (QUICK DISCONNECT TO H2 ELECTROLYSIS BY "PROTE")

PANTRY:
- WIRE RACK, VERTICAL DIVIDERS, OR VERTICAL STACKS

LID:
- AUTO RAISE & LOWER, SECOND SECURE LID UNDER COOLER LID

INTERFACE:
- TOUCHSCREEN
- SALES: ONLINE MARKETPLACE & ROUTING +
- BILL & COIN & CARD SLOTS

CONNECTED:
- WIFI, LORAWAN

AUTOMATED DELIVERY:
- 2 OR MORE DRONES
- REMOTE POWER, SITS ON POWER SANDWICH WITH OPTION TO EXPAND THAT PANEL INTO A STACK OF SHELVES

KITCHEN:
- REFRIGERATION AND STEAM HEATING (OF FOOD)
- STEAM CLEANING (OF CYLINDERS) + PREP TOP & STEAM
- SINK/DISHWASHER @ SIDE (STERILIZATION)

VENDING:
- FUEL CANISTERS, FOOD/LIQUID CANISTERS,
- TOOLS & HARDWARE, ONLINE NETWORK (HOMESTEADING & PERSONAL DELIVERY)

USECASES

FRAME

GANTRY

ROBOTIC ARMS X2-X4

ASSEMBLY UNIT

CAROUSEL

COOLER DROP-IN

FUTURE DEVELOPMENT: THE CANRAD MOTOR ORIENTATION IN #5 FUNCTIONS AS A 4 DEGREES OF FREEDOM ELBOW WITH SIGNIFICANT ELBOW STRENGTH BECAUSE OF TWO BACK TO BACK MOTORS. THE LIGHTWEIGHT ARM LENGTHS (WINGS) AND OPTION FOR EMBEDDED POWER AND WIRELESS MOTOR CONTROL RESULT IN UNLIMITED MOTION WITH RELATIVELY HIGH WEIGHT AND SPEED CAPABILITIES. AS SUCH, IT WILL BECOME A ROBOT ARM BY COMBINING THE JOINTS IN SEQUENCE.

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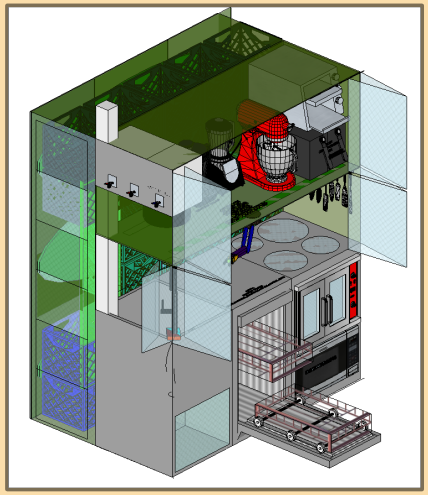
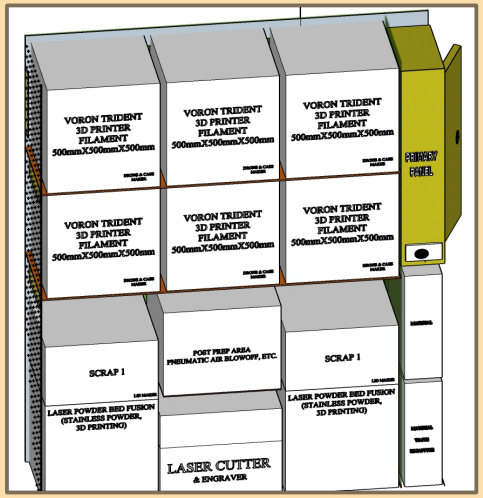
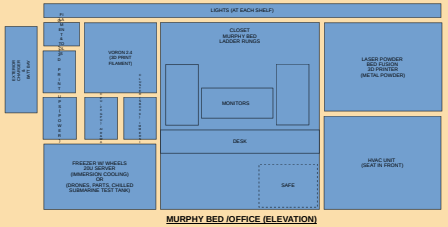
#7.A LIVING/FURNITURE



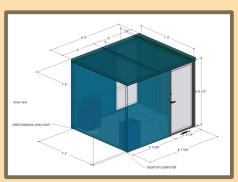

VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX500mm
VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX300mm
VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX500mm
VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX500mm
VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX300mm
VORON TRIDENT 3D PRINTER FILAMENT 500mmX500mmX500mm
EMERGENCY CENTER
SCRAP 1
POST PREP AREA PNEUMATIC AIR BLOWOFF, ETC.
SCRAP 1
LASER POWDER BED FUSION (STAINLESS POWDER, 3D PRINTING)
LASER POWDER BED FUSION (STAINLESS POWDER, 3D PRINTING)
LASER CUTTER & ENGRAVER

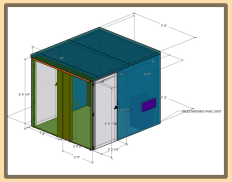
#6. AUTOMATION & SALES

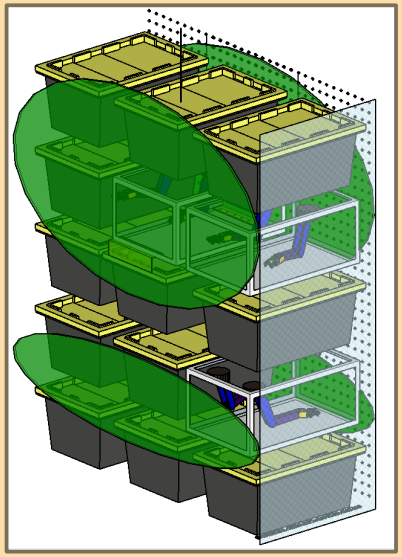
#7.A LIVING/FURNITURE

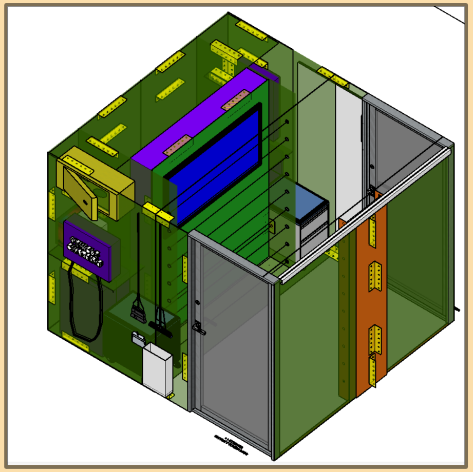


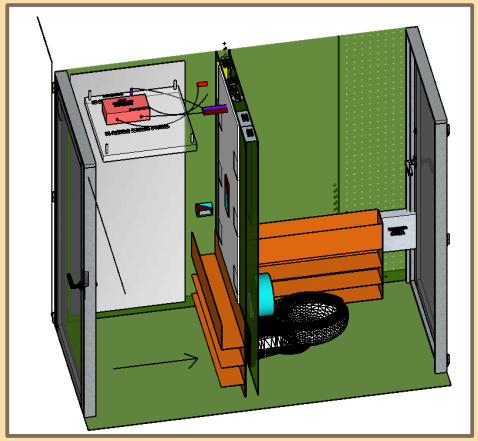
MURPHY BED /OFFICE (ELEVATION)











DESIGN FEATURES

CORE DESIGN:
- 3/16" PLATE STEEL WITH 3"X3" STEEL ANGLES AND .5" HOLES FOR BOLTED CONNECTIONS (FLATPACKING.)
- OPTION FOR CSIP (CEMENTITIOUS STRUCTURAL INSULATED PANELS) AT BEDROOM/OFFICE AREA FOR INSULATION)
- FREESTANDING ROOMS: 64SF BEDROOM/GYM/OFFICE, 24SF SHOWER & TOILET, 20SF KITCHENETTE, 15SF STORAGE, 10SF FABRICATION, 24SF LAUNDRY & VENDING
- RAPIDLY INSTALLS AT/IN: GARAGE, BARN, BOX TRUCK TRAILER, CONCRETE PAD, FLOATING DECK, CMU/WOOD/STEEL/CONCRETE STRUCTURE, OR ISO SHIPPING CONTAINER (ANYWHERE)
- APPROXIMATE SIZE: 17'5" LONG, 7'10" WIDE. ADD 3' TO LENGTH FOR DEDICATED WASHER/DRYER AND VENDING MACHINE.

STRUCTURAL: FREESTANDING, WATER & WEATHERPROOF, CONTROLLED TEMPERATURE, SECURE, 2 PERSON USE

BEDROOM/GYM/OFFICE CUBE: QUEEN MURPHY BED, DESK, CLOSET, DUAL SWEDISH LADDER GYM, OPTIONAL EQUIPMENT: ROLLING DEHUMIDIFIER/HVAC, ROWER, 4UX2 MINERAL OIL COOLED SERVER RACK, 60" TELEVISION

STORAGE CUBE: 2 ROTATING CAROUSELS (EASY ACCESS TO STORAGE), ROBOT ARM AUTOMATED ORGANIZATION OR ASSEMBLY OF PRODUCTS. APPROXIMATELY 12 BINS (25 GALLON TUBS)

KITCHENETTE CUBE:
- OVEN, MICROWAVE, TOASTER, AIRFRYER, STANDING MIXER, HOT WATER/COFFEE MAKER, COLD WATER MAKER, ELECTRIC STOVE, BUILT-IN DISHWASHER, SINK&GARBAGE DISPOSAL, POINT OF USE WATER HEATER, PRESSURE POTS & CAROUSEL STORAGE: 10 MILKCRATE FREEZER, 10 MILKCRATE FRIDGE, 8 MILKCRATE PANTRY

FABRICATION CUBE: 12XL 3D PRINTER EQUIVALENT AND ROBOT ARM ATTENDEES FROM REAR VIA STORAGE CAROUSEL.

SHOWER AND TOILET CUBE: DUAL SINKS, WALL HUNG TOILET, BODY SPRAY, RAINFALL, AND WAND SHOWER, FULL HEIGHT MIRRORS

SHOWER CUBE: CHEMICAL SHOWER AND AIRLOCK OPTION.

WINDOWS: OPTIONAL GLASS LITES IN EACH DOORTH OR WITHOUT FROSTING/FRIT.

EXTERIOR AREA: VEHICLE CHARGING, CLEANING, OPTIONAL NARQUEE SIGNAGE

UTILITIES: LED LIGHT STRIPS, ELECTRONIC DOOR LOCKS WITH CAMERAS AND FINGERPRINT/NUMPAD/EYE/KEY OPTIONS, DEVICE CHARGING HUB, QUICK DISCONNECT PLUMBING, WATER TANK AT CEILING, SOLAR ELECTRICITY/WATER HEATING AT ROOF, VACUUM PUMP GREY WATER/MACERATOR SEWAGE OR STANDARD CONNECTIONS, 3 STAGE WATER PURIFIER AND WELL WATER PUMP (OPTION TO PLACE IN A 5 GALLON BARREL), DEDICATED TRASH AND MEPF CHUTES/CHASES

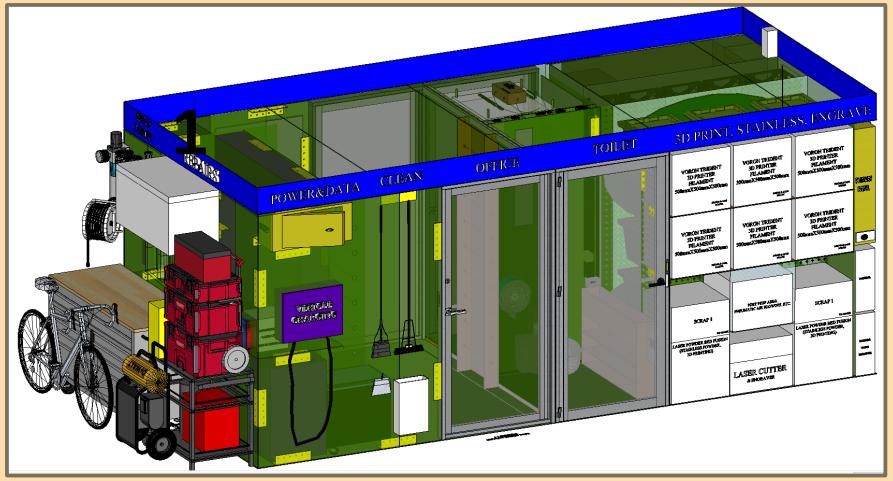
FULLY AUTOMATED: KITCHEN, STORAGE, FABRICATION AREAS WITH ENCLOSED SAFE WORK AREAS. OPTION FOR AUTOMATED ROBOTIC CLEANING ROVER (ARMS ON WHEELS.) HOME APPLIANCE/DOOR/HVAC/CAMERA CONTROL VIA "DOMOTICZ" SOFTWARE.

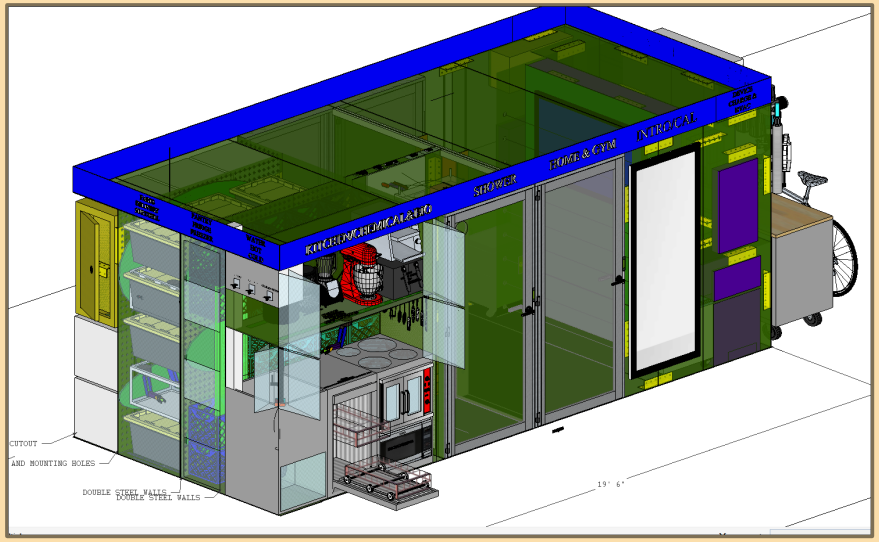
POINTS OF SALE: OPTION FOR 100% AUTOMATED POINTS OF SALE AT: KITCHEN, STORAGE, AND FABRICATION AREAS.

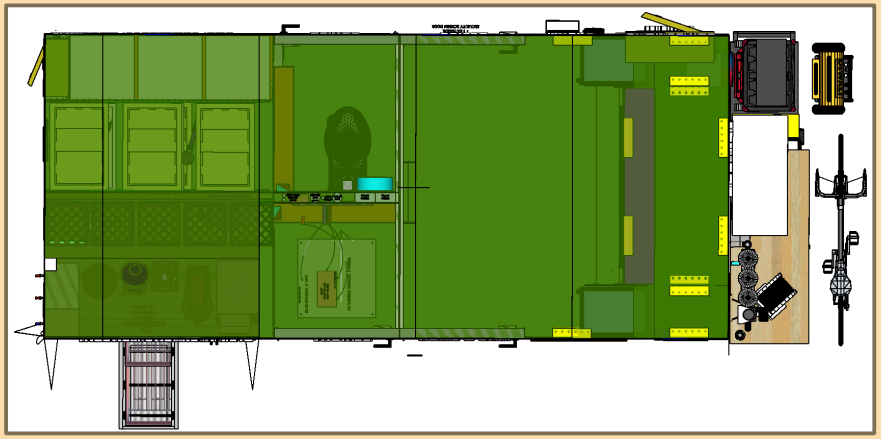
USECASES: LIVE, WORK, FABRICATE (ANYTHING), FULLY AUTOMATED MATERIAL DELIVERY, OPTIONAL OCCUPATION WHILE OPERATING, CONNECT MULTIPLE UNITS VIA A FULLY AUTOMATED NETWORK, PUBLIC SALES.

- COMPACTOR
- CAFE
- BAKERY
- LAUNDRY
- VENDING
- DELIVERY
- ATM WITH USDC
- INTERNET
- LOCAL MEDIA STREAMING
- COMMUNICATIONS NETWORK REPEATER & MESHNETWORK

#7.B SHELL, 1 PARKING SPACE & SKELETON LIFT







1 UTILITY (5+5 DOORS):
- COMMERCIAL WASHER/DRYER
- HOT & COLD WATER FILL
(5 GALLON WATER & HIGH FAUCET FILL)
- STANDARD VENDING MACHINE
- TOILET + SHOWER + SINK (2)
- PUBLIC ACCESS: BENCH, EXTERIOR LIGHTING, WIFI, INSULATION
- 20’ ISO CONTAINER

1 LIVE/WORK (OMNIFURNITURE INTEGRATED):
- HOTWORK CAPABLE (WELDING, FOUNDRY, PLASTICS)
- NATURAL VENTILATION WITH FANS & LIGHTING
- 26KW NATURAL GAS GENERATOR
- POINT OF SALE AT STORAGE
- KITCHEN SLIDING WINDOW
- SOLAR ROOF
- HYDRONIC WALLS
- ELECTRIC & PLUMBING CHASE
- CEILING GANTRY
- 1OO YEAR ROOF WITH INTEGRATED BATTERIES + SOLAR + FANS + FINISHES
- 20’ ISO CONTAINER

2 CONTAINERS:
- 2.4KW SOLAR POWER ROOF (INTEGRATED: ALUMINUM STRUCTURE AS GUTTER, SOLAR PANELS AS WATERPROOF ROOF MEMBRANE, CEILING AS LIGHT FIXTURES + BATTERY, AND AIRFLOW WITHIN BEAM POCKETS) EXPECTED 100 YEAR WARRANTY
- GARAGE AREA BETWEEN WITH SLIDING DOOR
- 20’ ISO CONTAINER X2 + ~20’ SPAN BETWEEN

BUILDING ORIENTATIONS:
- ONE UNIT
- TWO UNIT WITH SOLAR ROOF SPAN BETWEEN
- FIVE UNIT MALL LAYOUT
- EXPAND FROM 1 TO 2 TO 5 TO 14 CONTAINERS AS A FOUR STORY TOWER “TITANIC” USING EXISTING BUILDING COMPONENTS (NO CHANGE, JUST STACK UP.)
- ~60’X60’ BUILDING FOOTPRINT
“+SMART TRANSPORTATION” FOR INDIVIDUALS

BUILDING TYPES:
- CABIN
- RESIDENTIAL (LIVE/WORK)
- COMMERCIAL SALES
- FABRICATOR
- LABORATORY
- HOSPITAL BED
- OPERATING ROOM
- CLEAN ROOM
- MINING OUTPOST
- WATERFRONT
- HOUSEBOAT
- PARK OUTPOST
- PARKING LOT SALES
- DIRT LOT SALES

FURNITURE OPTIONS:
- STRUCTURAL “OMNIFURNITURE”
- PERFORATED PANEL FURNITURE “POWER SANDWICH” (METAL AND COMPOSITE FURNITURE WITH INTEGRATED BATTERY OR WOOD SLABS/PLYWOOD

USECASES

ANY BUILDING “SHELL”

MOBILE BUSINESS

RECREATIONAL VEHICLE

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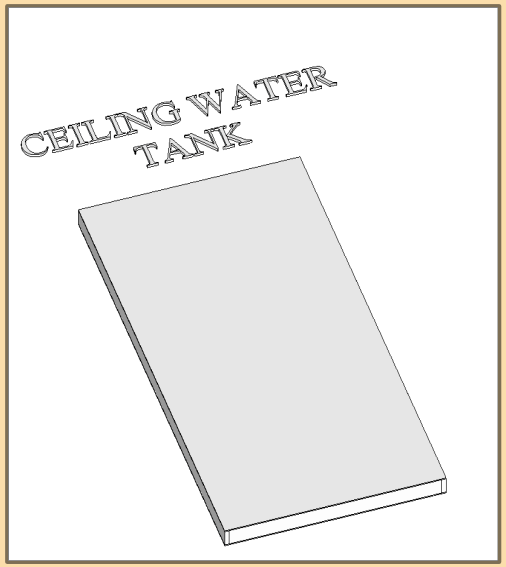
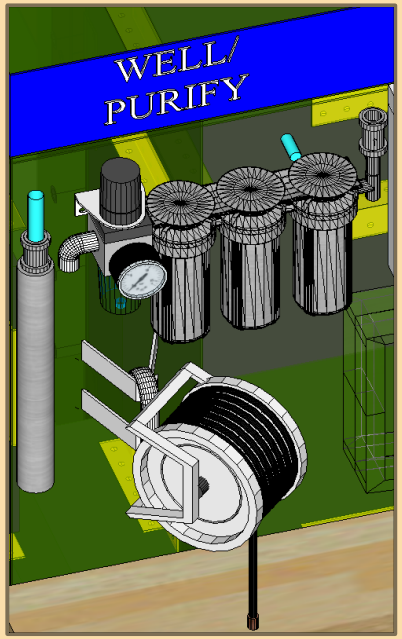
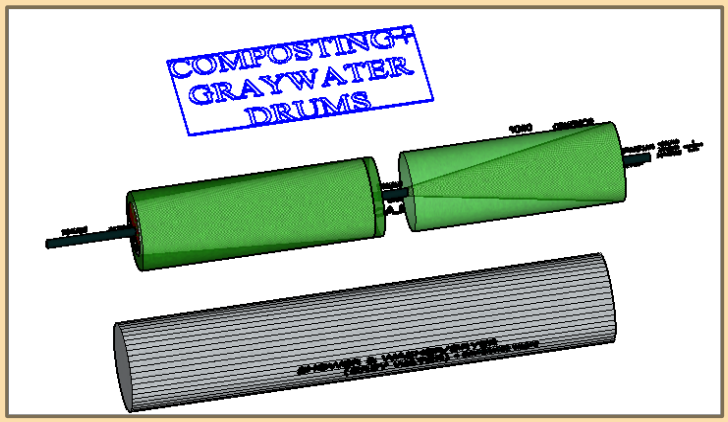
#7.C WORKSHOP, UTILITIES SYSTEMS







DESIGN FEATURES

UTILITIES SYSTEMS INCLUDE (FROM TOP TO BOTTOM):
1. SOLAR ARRAY
2. C CHANNEL RAIN GUTTER STRUCTURE
3. SEALED BATTERY, SOLAR CHARGER, AND COOLING FANS
4. WATER TANKS
5. WELL WATER PURIFICATION SYSTEM & WELL PUMP
6. WASTE COMPOSTING AND DRYING SYSTEM
7. TRASH AND RECYLING SORTING

STANDARD SOLAR PANELS: 200-400 WATTS EACH, A GLASS ROOF WITH WARRANTY EQUIVALENT TO SOLAR PANEL WARRANTY FROM MANUFACTURER. THESE BOLT ON TO THE C CHANNEL BELOW. AUTO CLEANIMG OF SOLAR PANELS AVAILABLE BY CANRAD DRONE WITH VACUUM AND SPRAYER CAN INSTALLED.

UPTURNED ALUMINUM C CHANNEL BEAMS: STRUCTURE & GUTTER BETWEEN PANELS, WALKABLE ROOF ON BEAMS, WELDED/SEALED ABUTMENTS BETWEEN C CHANNELS, OPEN ENDS TO DOWNSPOUTS OR CHAIN FALL. POSITIVE LAPPING OF SOLAR PANELS OVER STRUCTURAL BEAM, DOUBLE SIDED TAPE/SEALANT AND SLOTTED CONNECTION TO SOLAR PANELS ADDRESSES WIND UPLIFTS/TORNADOES/HURRICANES AND DRIVEN RAIN. PLENUM BEAM BOCKETS IN THE C CHANNEL ALLOW FOR PASSIVE OR ACTIVE COOLING BELOW THE SOLAR PANELS AND AT BATTERIES

CYLINDERS ATTACHED IN THE PLENUM POCKETS OF THE C CHANNEL: WITH AN OPTION FOR A RIBBED SHEETMETAL ENCLOSURE (#2 POWER SANDWICH) ALLOW FOR FUEL/BATTERY STORAGE. THE SHEETMETAL ENCLOSURE IS GENERALLY REQUIRED FOR HYDROGEN/NATURAL GAS IN ORDER TO PROVIDE FOR STRUCTURAL RIGIDITY AND INSULATION + FIREPROOFING.

WATER TANKS: SHEETMETAL WATER TANKS ARE LOCATED DIRECTLY BELOW THE C CHANNEL, THESE SUPPORT THAT ROOF STRUCTURE, SO THEY HAVE A STRUCTURAL PERIMETER.

WELL WATER: A 3 STAGE FILTER, COILING HOSE, AND WELL PUMP WITH CORD CAN BE USED TO GET WATER FROM ANY LOCATION AS WITH A 55 GALLON BARREL, OR A DRILLED WELL AND IS SET TO FEED DIRECTLY TO THE ROOF WATER TANK.

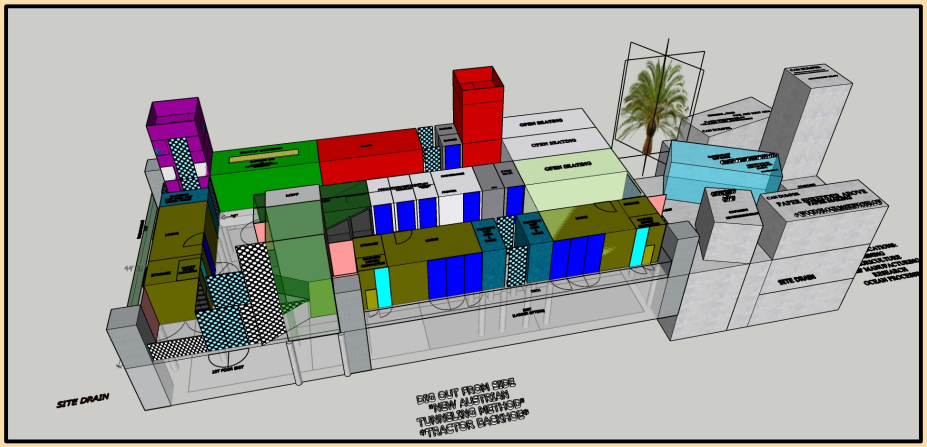
WASTE MANAGEMENT: COMPOSTING IS NOT ALLOWED BY MANY CITIES, BUT DRYING WASTE AND HAVING THE OPTION TO COMPOST ALONG WITH A DIRECT CONNECTION TO THE CITY MUST BE ALLOWED. WASTE IS SEPARATED FROM LIQUID BY A CYLINDRICAL COLLANDER WITHIN A ROLLING CYLINDER (1 STEEP AND 1 SHALLOW CONE) - LIQUID EVAPORATE IS VENTED AFTER AN INITIAL SEPARATION OF PRIMARY LIQUIDS AND SOLIDS VIA DIVERTER GRATE. ALL PROCESSED WASTE CAN BE FED BACK TO THE SEWER, OR SOLID WASTE CAN BE CONTINUOUSLY DRIED AND MIXED FOR USE IN PLANTING.

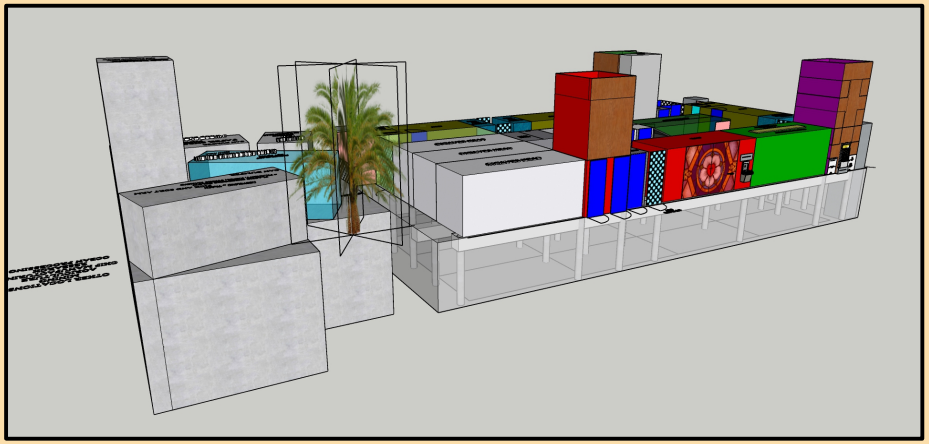
DUMPSTER AND RECYLING SORTING: PLACING INDIVIDUAL RECYCLING AND TRASH BINS ALONG LARGER DUMPSTERS ALLOWS FOR SORTING OR DUMPING BETWEEN THE TWO. USERS CAN CHOOSE TO USE/COMMERCIALLY RECYCLE THE SORTED MATERIAL, OR DUMP IT INTO THE LARGER BIN FOR HAULOFF. A ROBOT ARM/GANTRY AND ARMATURE WITH OR WITHOUT HYDRAULICS CAN AUTOMATE THIS ENTIRE PROCESS OF SORTING OR DUMPING. SORTING ALLOWS FOR ON-SITE RE-USE/PROCESSING INTO COMMERCIAL MATERIAL FOR ON-SITE FABRICATION AS WELL.

GENERATOR/MICROTURBINE: AN ON-SITE LIQUID NATURAL GAS MICROTURBINE IS THE MOST EFFICIENT FOR POWER PRODUCTION. KEPT IN ITS OWN SOUNDPROOF AREA.

MAINTAIN CITY CONNECTIONS FOR: GRID TIE, SEWER TIE, AND WATER TIE. TRY TO USE ALL PRODUCED ELECTRICITY ON-SITE AS THE MARKET FOR IT IS NOT PRICED FOR THE BENEFIT OF INDEPENDENT PRODUCERS.

#7.D MALL & FOUNDRY, 1 STORY (120'X60')





DESIGN FEATURES

BUILDING FOOTPRINT AT 60'X120'+ WORKPARK
FOR A SINGLE FLOOR MALL WITH SOLAR ROOF.
SEQUENCE: BUILD FOUNDATIONS AND THE FIRST FLOOR, THEN STACK ADDITIONAL FLOORS ON TOP VIA RAMP AND GANTRY, CRANE, OR EBFL.

SQUARE FOOTAGE BREAKDOWN:
LIVE/WORK: 160*3=480SF, SEATING/CAFE: 160*3=480SF, CHAPEL: 160SF, COMPUTER SERVERS: 80*2=160SF, BATHROOMS: 80*2=160SF, MEETING: 160SF, MAINTENANCE: 80SF, ELEVATOR AND STAIRS FOR UPPER FLOORS: 400SF. WORKPARK BUILDINGS: 640SF.

LIVE/WORK UNITS + "OMNIFURNITURE":
- PRIVATE POINT OF SALE AT STORAGE
- OPTIONAL PUBLIC ACCESS TO SHOWER AND TOILET AT EACH PRIVATE UNIT (PAID OR UNPAID)
- BALCONY: 1 SHARED, AND 1 PRIVATE AT EACH UNIT.
- COMMERCIAL/COMMUNAL AREA AT EACH FLOOR
- INDIVIDUALLY METERED UTILITIES
- RETAIL POINT OF SALE:AT EACH LIVING UNIT AND VIA WEBSITE WITH FULFILLMENT VIA PACKAGE OR VENDING STORAGE AREA AT EACH UNIT.

ON-SITE UTILITIES:
- 10 KW ROOF SOLAR POWER
- SOLAR ROOF
- HYDRAULIC POWER WITH CISTERN & ROOF TANK
- WIRED FOR HIGH-SPEED INTERNET AND/OR MESH NETWORK
- WIRED FOR IN-UNIT BATTERIES (USE POWER ON-SITE)
- BUILDING MANAGEMENT SYSTEM: WATER TEMPERATURE AND PUMPING, POWER PRODUCTION & CONSUMPTION, LOCKS, CAMERAS, HVAC, SPRINKLER, ALARM, LIGHTS, ELEVATOR
- HYDRONIC HEAT MANAGEMENT VIA ROOFTOP WATER TANKS

SAFETY:
- 100% FIREPROOF, FULLY SPRINKLER-ED, STRUCTURALLY SUPERIOR (EARTHQUAKE, TYPHOON, TORNADO)
LOWER INSURANCE RATES
- DUAL EGRESS PATHS AT ALL ROOMS
- 100% FENCED, PERFORATED METAL EXTERIOR WALLS, OPTION FOR SHUTTERS OVER GLASS.

CONSTRUCTION LOAN & SCHEDULE:
- 100% MODULAR (PREFABRICATE & ERECT IN ONE DAY + SITE PREPARATION
- LOW FABRICATION LABOR RATES, AND HIGHER QUALITY FROM A STANDARD FABRICATION ENVIRONMENT + TOOLS + KNOWN LABOR FORCE JOB LOCATION.
- FLAT-PACKED AND PALLET SHIPPED AS A KIT
- OPTION TO DIG 2 FLOOR BASEMENT/PIT FOR MATERIAL AND ADA RAMP ACCESSIBILITY
- OPTION TO STAGE BUILDING AT EACH FLOOR
- 100% AUTOMATED CONSTRUCTION VIA GANTRY HOIST OR MANUAL CONSTRUCTION VIA EBFL/CRANE.

USECASES

ROOMS/BUSINESSES: 3 LIVING UNITS, 6 DEDICATED MEETING ROOM STALLS, MAINTENANCE OFFICE, OPEN SEATING, COMPUTER SERVER ROOM (MINERAL OIL 4U SERVER RACKS WITH COOLING), MATERIAL PRODUCTION AND RECYCLING, BATHROOMS, PACKAGE RECEIPT.

1ST FLOOR MALL: LIVE/WORK, FABRICATE, LAUNDRY, VENDING, CAFE, COMPUTER-SERVER, CHAPEL, OPTION FOR FUTURE TOWER.

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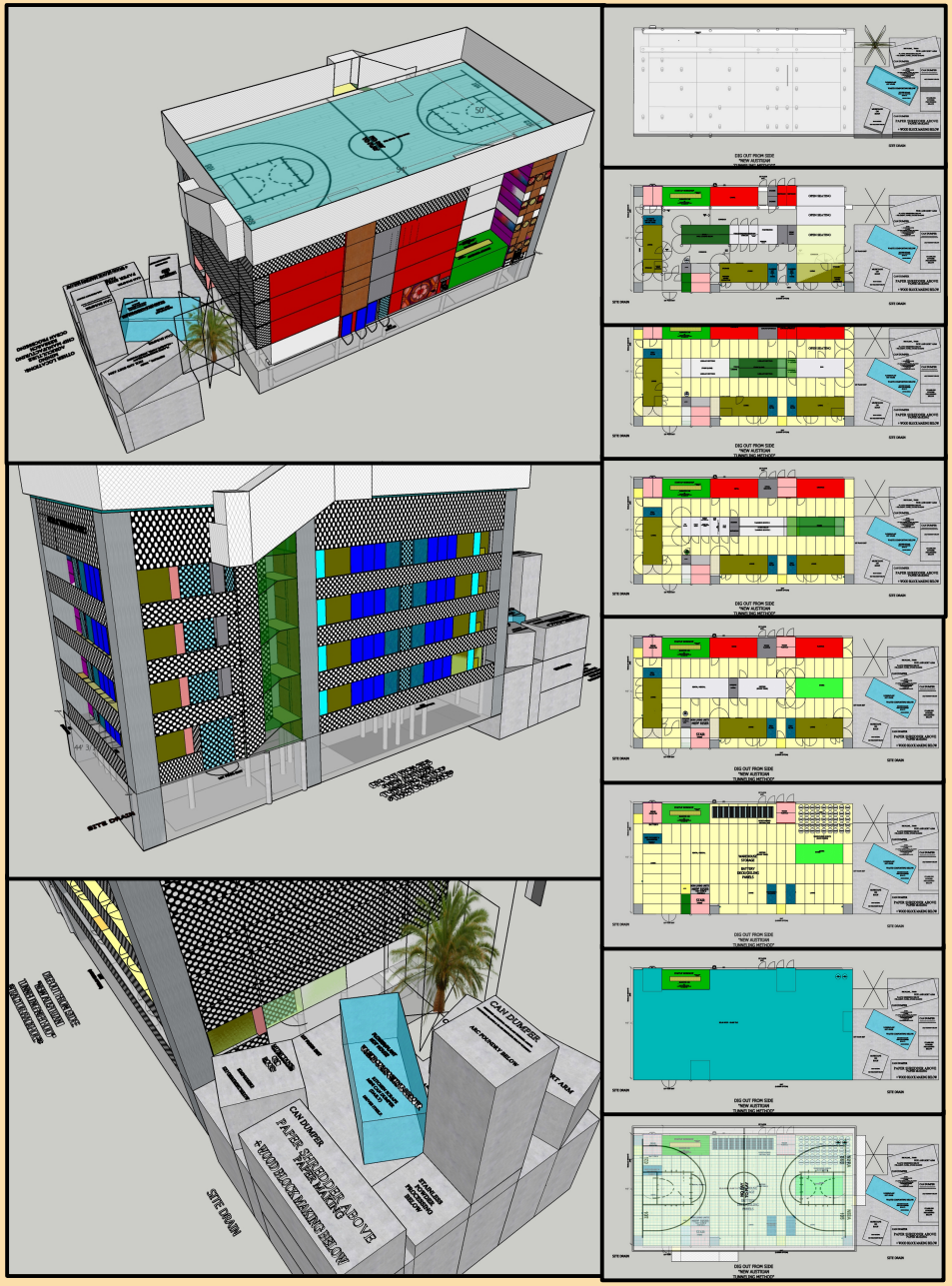
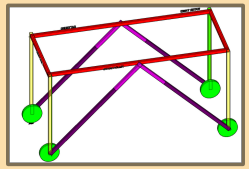
#8. BUSINESS COOPERATIVE "PITTED TOWER"





DESIGN FEATURES

BASEMENT +4.5+ROOF TOWER

120'X60' LOT PLUS 1:1 SLOPED SETBACK FROM 20' DEPTH BASEMENT AREA. = 160'X100' LOT AREA TO SLOPED EDGE. OR RETAINING WALL/ STANDARD BASEMENT. EACH # BELOW DENOTES A 160SF (20' CONTAINER) WORTH OF SPACE. ANY BUILDING MATERIAL CAN BE USED FOR CONSTRUCTION, BUT ISO CONTAINERS ARE BY FAR THE LEAST EXPENSIVE AND ARE VERY DURABLE.

3 REPEATING FLOORS: 3 RESIDENTIAL, 2 FABRICATION, 2 COMMERCIAL, 1 COMPUTER SERVER, 1 ELEVATOR, 1 STAIR

1 WAREHOUSE FLOOR: FULL AUTOMATION, STORAGE RACKS WITH MOTORIZED WHEELS (LEFT/RIGHT STRAFING, FORWARD, BACK)

1 BASKETBALL SPORT-COURT ROOF: FULL COURT. 120'X60' LOT AREA IS REQUIRED BY ROOFTOP BASKETBALL COURT AND 8' CORRIDOR WIDTH

1 WORK PARK: MATERIAL PROCESSING AND RECYCLING. FOUNDRY, PELLETIZING, H2O TREATMENT, COMPOSTING, PAPER MAKING, SOAP MAKING. WITH ROOFTOP STAGE AREAS FOR VISITING AND ON-SITE LIVE MUSICIANS.

1 SUBTERRANEAN PARKING: DUG IN FROM SIDE AFTER INITIAL FOUNDATION AND BUILDING SET "NEW AUSTRIAN TUNNELING METHOD." SUBTERRANEAN AREA NEXT TO BUILDING AT WORK PARK USED FOR MATERIAL STORAGE/PROCESSING FOR EQUIPMENT AT GRADE.

1 FIRST FLOOR "MALL": 3 RESIDENTIAL, 1 COMPUTER SERVER, 1 CHAPEL, 2 BATHROOM, 1 MEETING ROOM, 1 MAINTENANCE, 1 MAIL, 1 ELEVATOR, 1 STAIR, 3 OPEN SEATING (FOOD AND ENTERTAINMENT.)

RESIDENTIAL AREAS: EACH HAVE THEIR OWN KITCHEN FOR PUBLIC SALE OF FOOD, STORAGE/VENDING, LAUNDRY WASHER/DRYER, AND CNC FABRICATION. THESE COMBINE WITH THE OPEN SEATING AREA ON THE FIRST FLOOR TO CREATE INCOME FOR INDIVIDUAL RESIDENTS WHILE OPERATING AS AN "AROUND THE WORLD" STYLE MULTI-STORY CAFE. INVITING THE PUBLIC INTO EACH FLOOR OF THE BUILDING IS PART OF WHY THE 8' WIDE CORRIDORS ARE REQUIRED AND WHY THERE IS SUCH A LARGE AMOUNT OF CIRCULATION SPACE. THIS SPACE IS ALSO MADE OF 4'X8' CORRUGATED STEEL DECKING OR STEEL PLATES IN ORDER TO ELIMINATE A NEED TO CUT PANELS WHICH SIMPLY SET ON ANGLE STEEL ATTACHED TO THE HEAD OF WALL AT EACH ROOM STACK.

PREFABRICATION'/STACKING: THE ENTIRE BUILDING CAN BE FABRICATED OFF-SITE OUT OF 3/16" STEEL PLATE, FOR ASSEMBLY ON-SITE, OR ASSEMBLY OFFSITE AND PICKUP BY A DEDICATED TRUCK UNIT WHICH ALSO STACKS THE UNITS. OTHERWISE, 20' CONTAINERS CAN BE LOADED WITH THE STEEL PLATES FOR ASSEMBLY BY OWNERS THEMSELVES (LOWER COST OF OWNERSHIP, BUT THAT ALSO CREATES CODE COMPLIANCE ISSUES.) REGARDLESS, THE ENTIRE BUILDING CAN BE MANUFACTURED OFFSITE, FOR STACKING ON-SITE BY THE VEHICLE. THIS IS POSSIBLE BECAUSE EACH VEHICLE HAS ROTATING WHEELS (LIKE AIRCRAFT OR CRANE GANTRY LANDING GEAR ON A PIVOT ALONG WITH HYDRAULIC ARMS FOR DROPOFF AND PICKUP.

ADDITIONAL FEATURES: ALL OF THE FEATURES OF #7 ARE BUILT INTO THIS TOWER COMPLEX. IDEALLY ITS ON-SITE EQUIPMENT BUILDS ITS OWN COMPONENTS AND THE ENTIRE SET OF PRODUCTS LISTED HERE.

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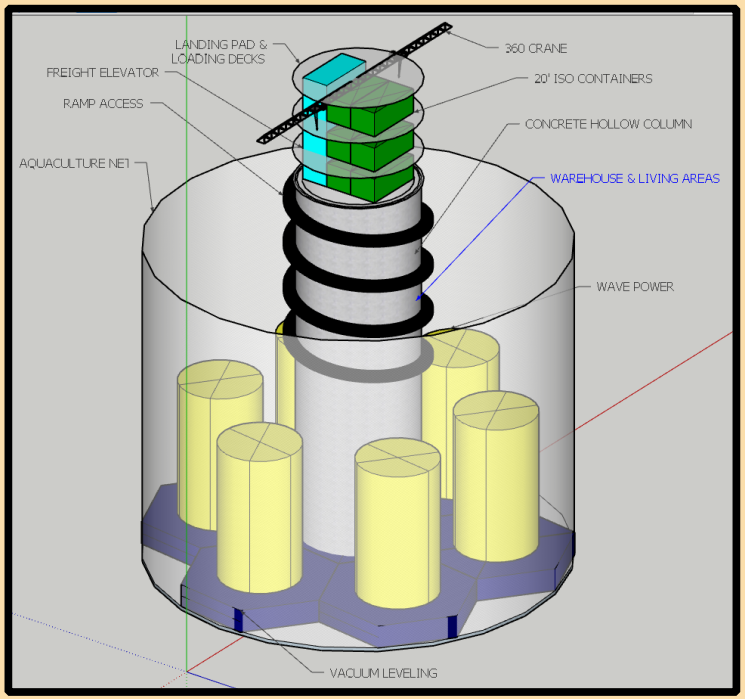
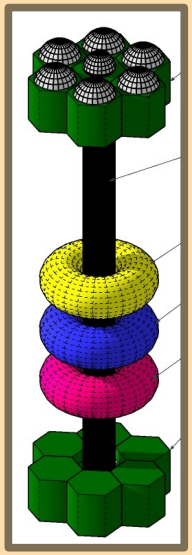
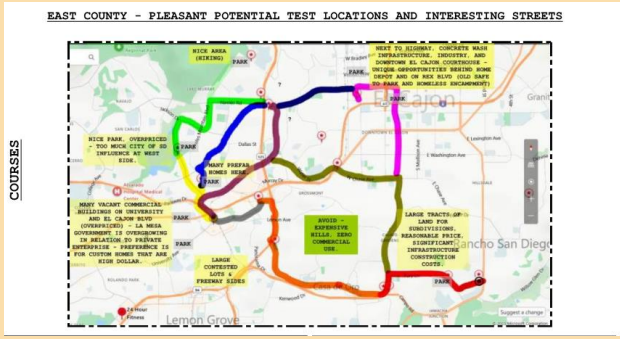
#9. LAND OR AN ISLAND





PRIMARY POWER FROM TIDAL ENERGY AND PRESSURE CHANGE AT DEPTH AROUND LARGE CONCRETE FLOATS. AUTOMATED CONSTRUCTION BY: AVENGE CATAMARAN & CANRAD SUBMARINE DRONES

POTENTIAL LAND LOCATION AND ROUTE AROUND SAN DIEGO COUNTY.



DESIGN FEATURES

CONCRETE ISLAND/ GROUND BASED SILO / WATER TOWER

- **FLOATING HEXAGONS** SUNK TO OCEAN FLOOR
- **TOWER/CYLINDER** POURED INTO INSET BAG SLEEVES (SIMILAR TO TWO SANDBAG SLEEVES.
- **AIR FROM THE INTERIOR OF THE CYLINDER FLOATS** THE CYLINDER ITSELF. ONCE LONG ENOUGH THE CYLINDER BEGINS TO FLOOD AND ONE END SUBMERGES TO CREATE A STABLE VERTICAL FLOATING CYLINDER THAT CAN BE ANCHORED, SIMILAR TO US NAVY SHIP "FLIP"
- **CONCRETE CONTINUES TO BE POURED TO EXTEND CYLINDER** TO SUNK FLOATING HEXAGONS AT BOTTOM OF WATER.
- **YELLOW FLOATS ALLOW FOR POWER PRODUCTION** OF ELECTRICITY USING INDUCTION AND TIDAL WATER DEPTH CHANGES.
- **CORKSCREW RAMP ALLOWS FOR WALK-UP** FROM DOCKED SHIPS, EXTENDED TO THE FLOOR BOTTOM IT ALLOWS FOR DRIVING MINING EQUIPMENT OR OTHER VEHICLES FROM THE BOTTOM OF THE WATER TO THE TOP OF THE TOWER.
- **CANTILEVERED TOWER CRANE** WITH OPEN DECKS BELOW AND HELIPAD ABOVE ALLOWS FOR RECEIVING AND STORING CARGO (ISO CONTAINERS OR OTHERWISE)
- **INTERIOR FREIGHT ELEVATOR** ALLOWS FOR STAGING CARGO WITHIN THE TOWER ITSELF.
- **SURROUNDING NET/BUOY SYSTEM** CREATES A LARGE AQUACULTURE AREA.
- **SMALLER BUOY "FREEWEIGHT"** EXAMPLE INCLUDES GENERALLY THE SAME SET OF SYSTEMS AND CONSTRUCTION METHOD.
- **BOTH #5 DRONE AND #7 PIONEER UNITS FIT** INTO THIS CONCRETE ISLAND / GROUND BASED SILO.

ISLAND:

WAREHOUSE: DELIVERY, RESTOCKING

AQUACULTURE: FISH, MOLLUSK, SQUID, WHALES?

TIDAL POWER PRODUCTION: INDUCTION, W/ OR W/O CABLES

TIDAL FRESH WATER PRODUCTION (FILTER) & OCEAN WATER PROCESSING (TIDES AS WATER PUMP)

MINING & DRILL PLATFORM (EQUIPMENT ACCESS TO BOTTOM WITHOUT SUPPORT SHIP/TETHER)

SHIP DOCK: RESUPPLY AND REPAIR

URBAN: HOME, BUSINESS, SALES, STORAGE, RESEARCH, GOVERNMENT

FABRICATION: FABRICATION, SCRAPPING, FARMERS MARKET

DERRICK: DEEP SEA MINING

LAKE: ENVIRONMENTAL, HOMESTEADING

SHORE (OCEAN/INLET): AQUACULTURE

SILO:

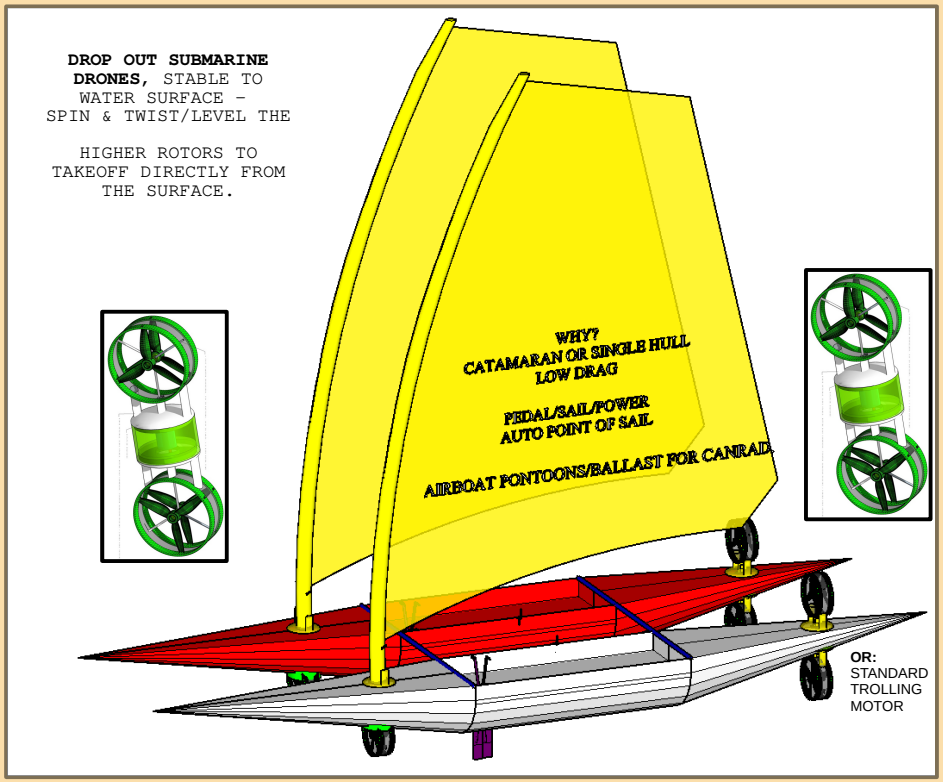
MOUNTAIN: SURVEYING

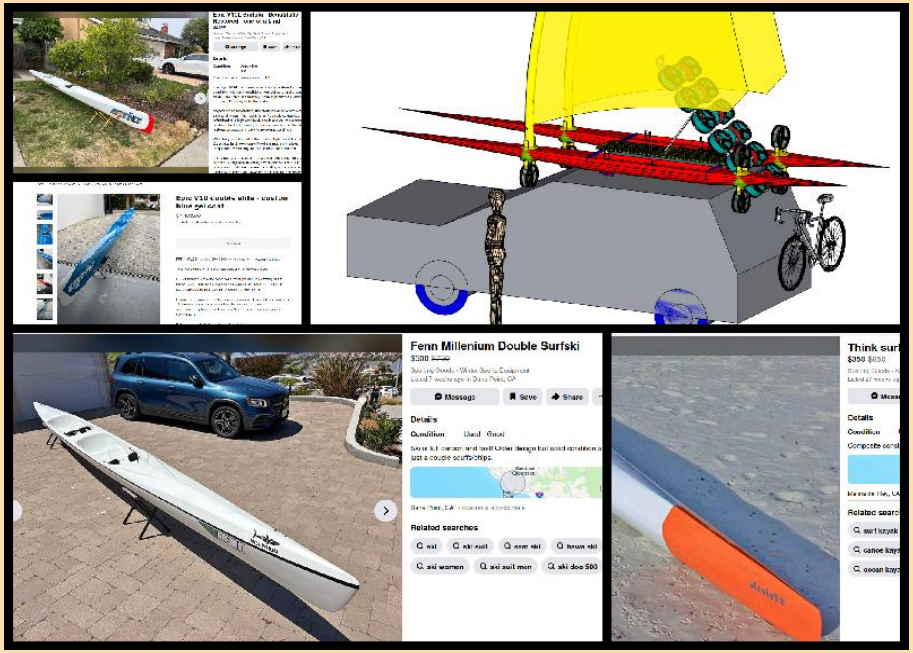
DESERT: MINING, TRANSPORTATION

FARM: PLANTS, LIVESTOCK

CONSTRUCTION: TEMPORARY LIVE/WORK

#10. BOAT KIT - PADDLE, SAIL, PEDAL, POWER





DESIGN FEATURES

AUTOMATED CATAMARAN
2 KAYAKS (ANY KIND), CONNECTED BY SPARES, CAR TOPPABLE, RAPID IN WATER (USE ROOF RACK QUICK ARMS AS SPARS, OR QUICK RELEASE/RATCHET STRAP THE HULLS TO EXISTING BARS/WINDOWS. 4 SPAR DECK MOUNTS PER HULL, AND 3 WELLS (1 FOR DROP IN PEDAL FINS, 2 FOR POWERED DRONE/SUBMARINE/SAIL MOTORS.) POWERED MOTORS ARE EQUIVALENT TO DOUBLED UP BOW THRUSTERS OR EVEN KORT PROPELLERS AND DROP OUT OF HULL TO ACT AS SUBMERSIBLES OR FLYING DRONES FROM #5. ALL ELECTRONICS AND BATTERIES ARE WITHIN THE DRONE/BOW THRUSTER.

IN WATER TIME: EXPECTED TO BE AS FAST AS REMOVAL FROM CAR ROOFRACK, OR DRIVE IT DIRECTLY INTO THE WATER FOR AN INSTANTANEOUS IN WATER TIME (NO TRAILER REQUIRED.)

USECASES

AUTOMATED POWER SAILBOAT: RULLER FURLER MAST AND SAIL COMBO AND DRONE AXIAL MOTOR ALLOW FOR AUTOMATED POINTS OF SAIL, OTHERWISE, A WINDSURFING SAIL ALLOWS FOR THE SAIL TO BE FULL SIZED AT ALL TIMES. WITH STRONG MOTORS THE THRUSTERS ARE ORIENTED TO CREATE A HYDROPLANING EFFECT AND GENERALLY A "SWATH" LINE BELOW THE WATER, ALTHOUGH THAT SHORT WATERLINE IS MORE HYDROFOIL AT THIS POINT. THE PEDAL FINS CREATE ADDITIONAL HYDROFOIL EFFECT.

POWERED TRAILER, AUTOMATED: THE DRONE PROPELLER ALSO ACTS AS A WHEEL THAT THE BOAT DRIVES OUT/BEACHES ON. THE BOAT CAN CONTINUE DRIVING, EVEN AT HIGH SPEEDS DEPENDING ON THE MOTOR AND PROPELLER/WHEEL COMBINATION USED IN THE DRONE/"BOW THRUSTER"

SHALLOW WATER/MARSH AIRBOAT: A KORT PROPELLER HELPS TO ELIMINATE FOULING FROM KELP OR OTHER PLANTS/ROPES WHILE THE BOTTOM PROP CAN BE REMOVED TO ALLOW FOR PROPULSION FROM ABOOVE THE WATER VIA AIR, HOWEVER THIS FAN IS VERY SMALL SO IT MUST BE RUN AT HIGH RPM FOR ANY THRUST (MAKING IT NOISY.)

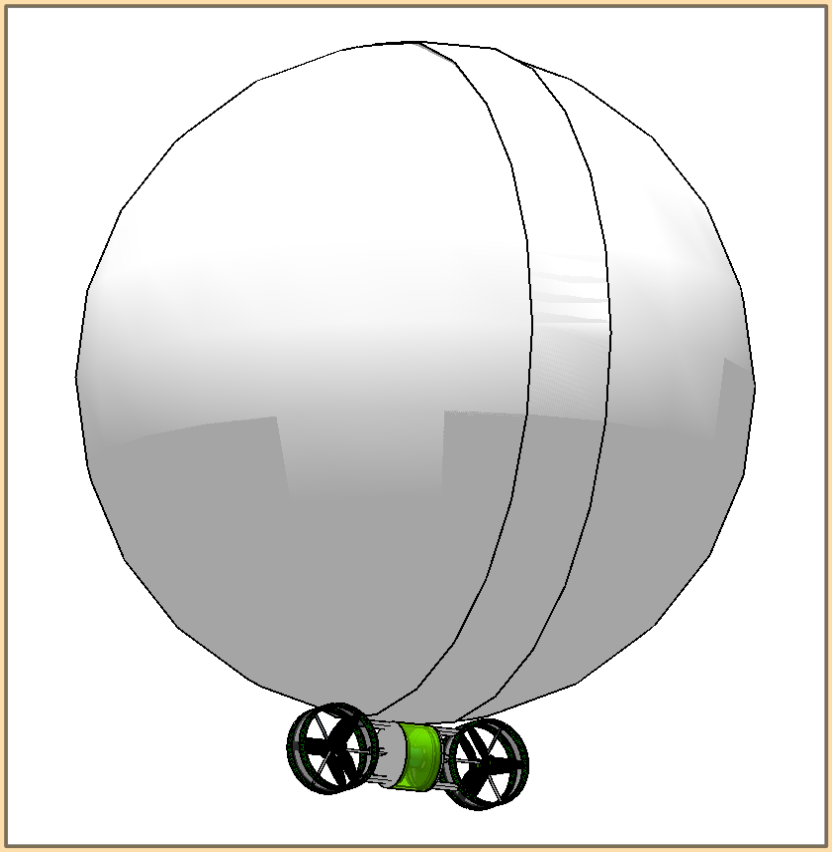
MODULAR AIRCRAFT CARRIER: WITH 2-4 DRONES (WITH OR WITHOUT SAILS, RESPECTIVELY) THIS BOAT ALREADY HAS 2 SMALLER CRAFT. WITH FULLY ENCLOSED HULLS IT SHOULD BE ABLE TO CARRY NEARLY 20+20+20 OF THESE 2' WIDE AIR/LAND/SEA DRONES.

BALLAST - SHALLOW SUBMERGE/SWAMPING IS POSSIBLE VIA 4 DRYBAGS/AIRBAGS/BALLAST WHICH ALSO SERVE AS EMERGENCY INFLATABLE BUOYANCY IN THE EVENT OF A HULL LEAK.

DRONE - VTOL AIRCRAFT FROM #5

DRONE - SUB FROM #5

#11. BALLOON



CHALLENGES:
- MAGNETIC CONNECTION TO BALLOON, SAME AS BACKPACK.
- LIGHTWEIGHT REEL TO GROUND (PLASTIC FLYFISHING LINE)
- RUNNER ON LIGHTWEIGHT WHEEL FOR HAULING UP SMALLER VEHICLES.

DESIGN FEATURES

WEATHER BALLON (BASIC, OFF THE SHELF, ETFE MATERIAL)

QUICK RELEASE
- SAME AS BACKPACK QUICK RELEASE BY MAGNET
- ALL HARDWARE BESIDES WEATHER BALLOON IS WITHIN FUSELAGE

GAS COMPRESSION CYLINDER
- WITHIN MAIN FUSELAGE/PILOT HOUSE

WINCH + RUNNER:
- OPTIONAL LINE FOR RUNNING SMALL GOODS/DRONES UP & DOWN.

INFLATABLE ETFE PACKAGING:
- SLEEVE WITH RING LOCK
- FOR CARGO (NO PERSONNEL)
- FLOATING CARRIER, IMAGING, RADIO

RADIOS:
- ANY SIGNAL TYPE: WIFI, MICROWAVE, LORAWAN MESHNETWORK

THE DRONE IS SIMPLY SUSPENDED BY A MAGNETIC QUICK RELEASE TO A WEATHER BALLOON WITH THE OPTION FOR HEIGHT AND CARGO MANAGEMENT BY CABLE/WINCH AND GAS COMPRESSION.

USECASES

WEATHER BALLOON: 24-7, RAIN CLOUD/ ANTI CO - SEEDER

PILOTHOUSE: HUMAN, ULTRA HIGH ALTITUTE HOT AIR BALLOON

RADIO REPEATER: WIFI, CELLULAR, LORAWAN

CAMERA: SECURITY AND PRODUCTION TRACKING (EFFICIENCY)

HOIST POINT: HIGHER ALTITUDE LAUNCHES WITHOUT FUEL USE

SEEDER: BB CAPSULES OF ANY KIND SHOT INTO THE GROUND (RAPID SEEDING OF HUGE AREAS.)

VENDING MACHINE: "SCELLAR" IN DEDICATED CUTTLE PODS

AERIAL IMAGING: CAMERA, LIDAR, RADAR IN PODS

LIGHTED LOCATION MARKER: EASY TO IDENTIFY A CAMP / BUILDING

TOWED LAUNCH PLATFORM (WINCH): RAPID ELEVATION GAIN AND FUEL SAVINGS FOR AIRCRAFT TAKEOFF

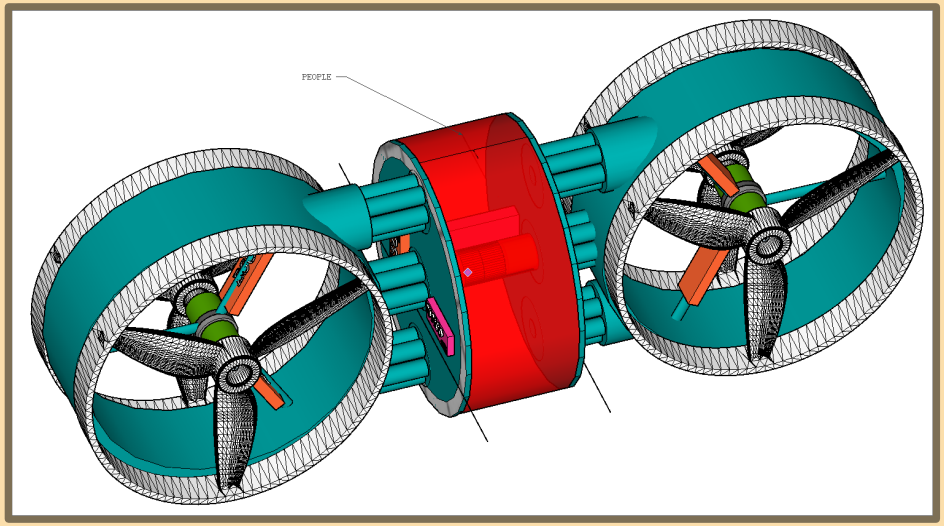
DETACHABLE SEMITRUCK BED: SIMILAR PURPOSE (AERIAL HERE)

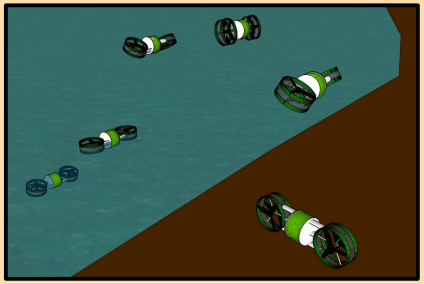
DELIVERY TO ANY LOCATION: WORLD-WIDE, MATERIAL SINGLE HANDING

LONG DISTANCE/DURATION TRANSPORT: STORAGE, AND DIRECT HOIST TO TOP DECK (NO CRANE)

SMALLER LAND/LAYDOWN AREAS: RIG AND HANG CARGO & "RAFT UP" ADDITIONAL BALLOONS

#12. FLYING SUBMARINE CAR





COMMON NAME:
- ”BICOPTER”, “TAILSITTER”, “VTOL”, “AUTONOMOUS UNDERWATER VEHICLE.” ALL EXISTED WELL BEFORE 2010 AND MOTOR ORIENTATION/CONTROL HAS BEEN UNDER DEVELOPMENT FOR SEVERAL DECADES FOR EACH IN SOME MANNER. GENERALLY ALL OF THESE MOTOR ORIENTATIONS ARE AVAILABLE IN THE ARDUPILOT SOFTWARE.

CHALLENGES:
- SUBMARINE>BOAT>COPTER>PLANE>COPER>QUADCYCLE
- TRANSITIONS BETWEEN VEHICLE MODES (RAPID LOAD OF ARDUPILOT OPERATING SYSTEM VEHICLE MODES)
- HIGH TORQUE IN WATER, HIGH RPM IN AIR
- MOTOR SEALING IN SALT WATER
- SUPPORT OF RIM DRIVEN PROPELLER AT TIRE RIM.
- COMBUSTION TO ELECTRICITY GENERATION (TURBINE/PISTON, “KARNO” OR “CAPSTONE”)
- MOTOR SIGNAL TRANSMISSION VIA RADIO TO RETAIN HIGH PRESSURE SEAL BETWEEN 3 SECTIONS
- 4 WHEEL SKID STEER

DESIGN FEATURES

SIZE OPTIONS: SCOOTER, MOTORCYCLE, CAR, VAN, SEMITRUCK, HELICOPTER, PLANE

FULL AUTOMATION OR MANUAL DRIVING, SINGLE THUMBSTICK CONTROLLER OR BY AUTOMATED WAYPOINTS.

VERTICAL TAKEOFF AND LANDING FROM ANY LOCATION

GYROSCOPIC SEATING (UP TO SIX PASSENGERS IN INDIVIDUAL RECLINED SEATS WITH OPTION FOR INDIVIDUAL EMERGENCY EJECT/DROPOFF WITHOUT IMPACTING FLIGHT WORTHINESS.

REDUNDANT PROPELLERS DEPENDING ON OVERALL FLIGHT WEIGHT.

SAME CAPABILITIES AS #5 DRONE, AND ENLARGED TO 6’ DIAMETER PROPELLERS/WHEELS (FITS IN THE GARAGE.) THE SAME PROPELLER DIAMETER CAN DRIVE A CONTAINER SHIP OR OIL TANKER (THIS REQUIRES AN EXTREMELY HIGH TORQUE, RIM DRIVEN MOTOR THAT REQUIRES HIGH PRECISION MAGNETIC BEARINGS IN TANDEM WITH LOWER SPEED/HIGHER WEIGHT SUPPORTING BALL/THRUST BEARINGS) – COMPARE TO AIRCRAFT LANDING GEAR WITH MAGNETIC BEARINGS AND HIGH RPM (RIM DRIVEN MOTORS THAT HAVE ALREADY BEEN CONSTRUCTED.) HIGH WEIGHT 360 WHEEL – HEAVY LIFT AND AIRCRAFT

USECASES

CAMPING: TENT, SECURE, WARM, QUIET, BED

PERSONAL TRANSPORTATION: AUTOMATED OR MANUAL PILOTING, HUMAN & MATERIAL LIFT (FLYING SUBMARINE/CAR)

HEAVY DELIVERY: 5 GALLON BARREL, 55 GALLON BARREL, CONCRETE W/ PUMP.

CONSTRUCTION: STEAMROLLER, DIGGER

TRACTOR

AUTOMATED VENDING: ATTACHES TO “SCELLAR UNIT ABOVE, OR CARRIES ON BEHIND INCLUDING ADDITIONAL “POWER SANDWICH” FUEL.

OPERATING ROOM

HYPERBARIC CHAMBER: ADD MICRO SURGERY ARMS FROM THE SMALLER DRONE #6 PRODUCT TO ALLOW FOR A 6 PERSON SURGERY/RECOVERY AREA INCLUDING FIELD USE AND POTENTIAL FOR A FLOATING (BALLOON LIFTED/STATIONED OPERATING ROOM/HOSPITAL)

DOOR WIDTH OPTIMIZED: 3’ X 6’ LONG DIAMETER CYLINDER. POSSIBLE WITH NEARLY 6’ PROPELLERS/WHEELS.

ANTIMICROBIAL: BRONZED ALUMINUM (MOSTLY COPPER), REMOVABLE RUBBERIZED PAD/ BODY BAG PER TYPICAL, AT INDIVIDUAL STERILE HYPERBARIC CHAMBERS.

TRAUMA & EMERGENCY EVACUATION: BULLETPROOF, FLAME AND SMOKE RESISTANT, SLOT IN INDIVIDUAL “STRETCHERS” IN THE SIX PASSENGER BAYS.

IMAGING SYSTEM: SONAR, MRI, X-RAY (AT CENTER)

MEDICAL TREATMENT: GANTRY WITH DEVICE HOLDER (ROBOTIC ARMS, MEDICATION, ORGAN TRANSPLANT)

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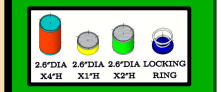
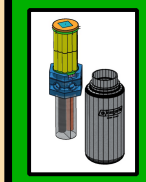
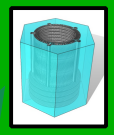
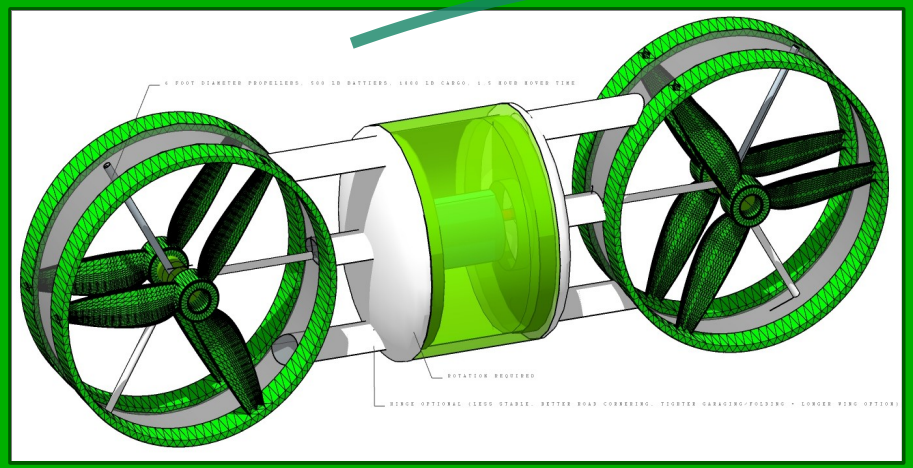
A CYCLE - MODELED

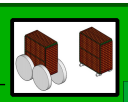


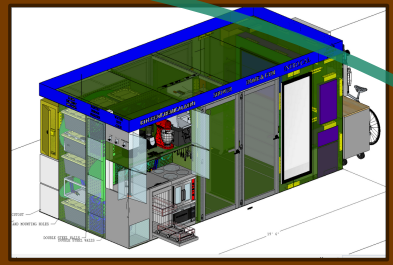


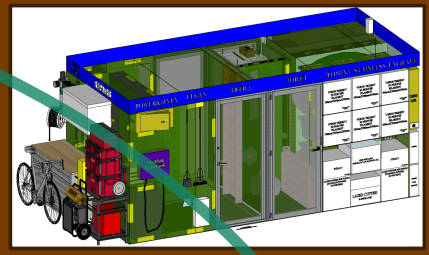


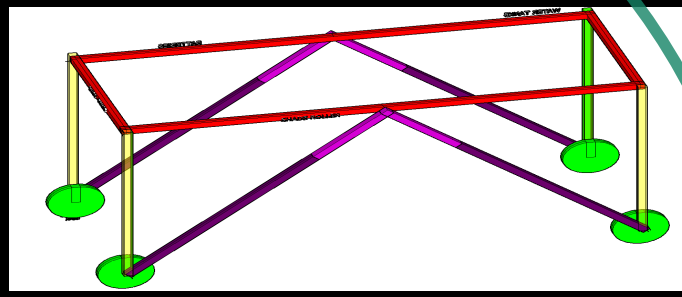


A/B. WALK & BACKPACK & PERSONAL TRANSPORT: LID/BOILER, WEARABLE COMPUTER, DRONE, DRYBAG, ESSENTIALS

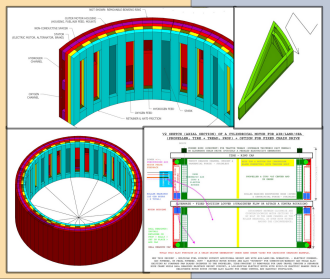




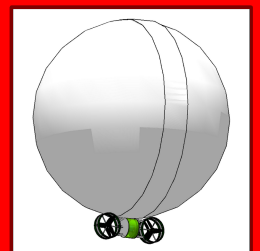




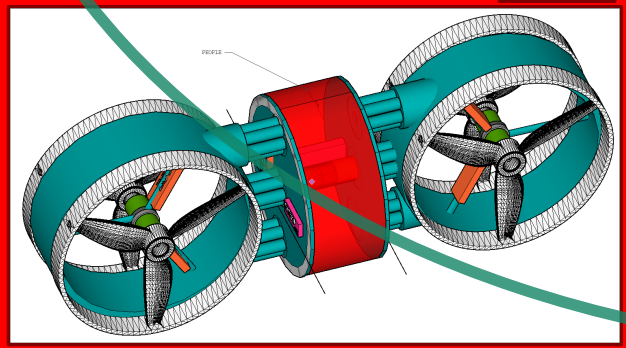
C. DRIVE & ASSEMBLE: HOME, RV, CONSTRUCTION GANTRY, CARRY-ALL GARBAGE/UTILITY/ISO CONTAINER SEMI (CANRAD AS WHEEL ASSEMBLY)



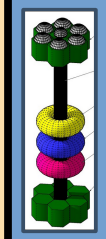
*** POWERED BY:** DUAL FUEL, RIM DRIVEN MOTOR (COMBUSTION EXHAUST & ELECTRIC)

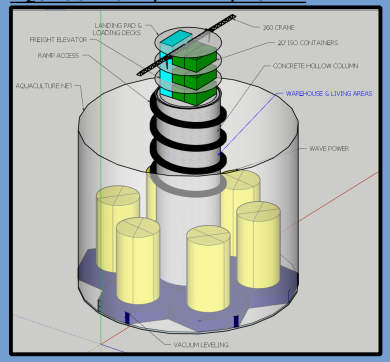


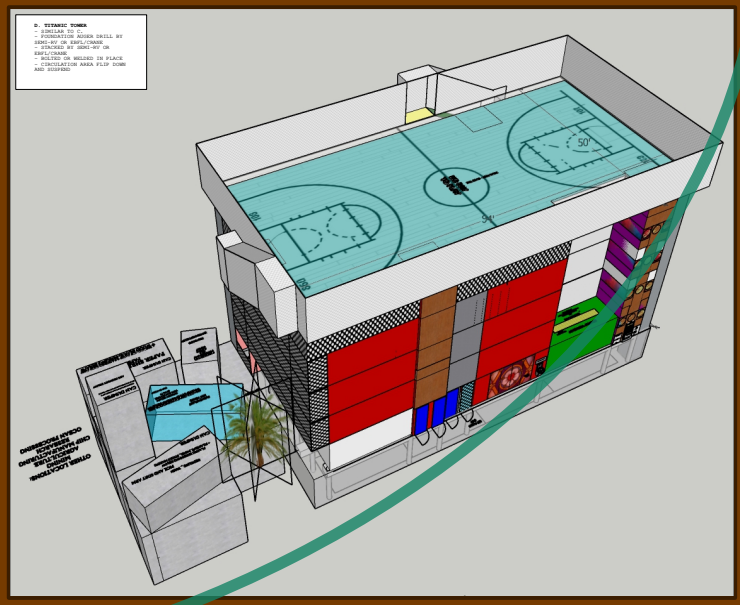
F. AIR/LAND/SEA: AUTOMATED FOR MULTIPLE PEOPLE- TRANSPORT & LABOR: CUSTOM FAB, MEDICAL, ETC.



E. DERRICK (OR LAND): TIDAL - POWER, WATER, AQUACULTURE, MINE, SHIP







D. TOWER STACK: ANY LOT, AUTO ASSEMBLE (4 STORY ISO CONTAINER/CONCRETE/CMU TOWER WITH SOLAR ROOF & H2O)

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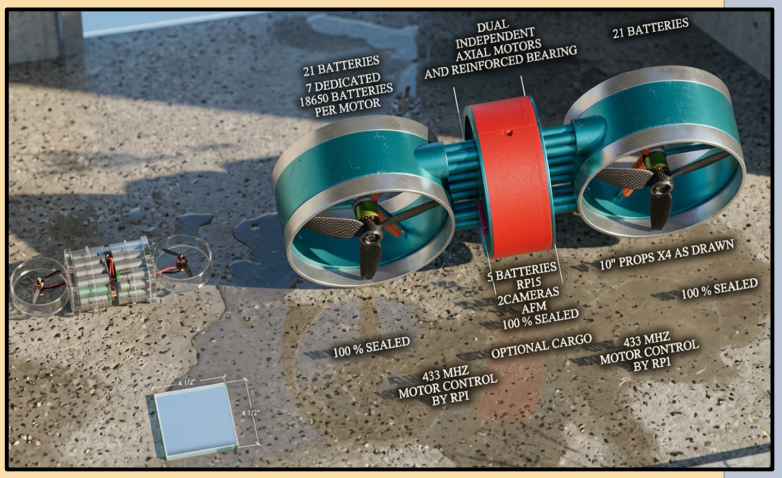
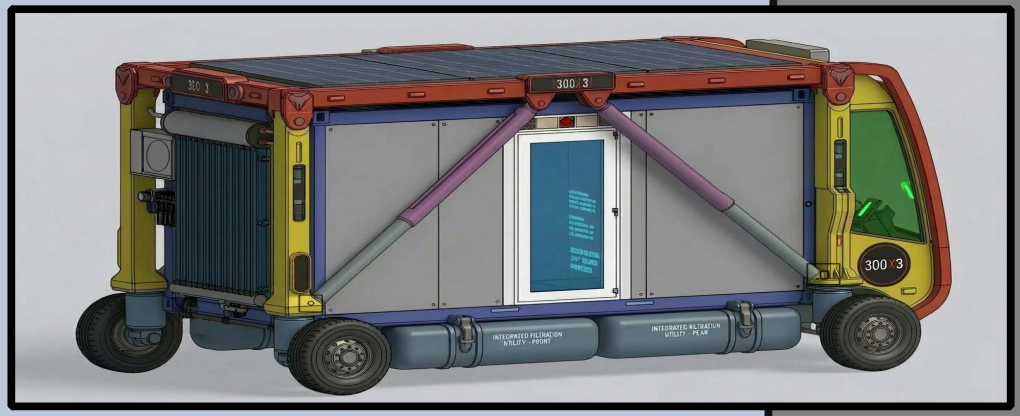
A CYCLE - RENDERED





DOCUMENTATION OF CURRENT ASSETS

CURRENTLY IN USE:

I LIVE/WORK IN MY CAR AND A GARAGE OF TOOLS/MATERIAL. ALL OF THE 300X3 PRODUCTS CAN BE MANUFACTURED HERE. I INTEND TO MANUFACTURE THE STEEL PLATES OFF-SITE AS PLASMA CUTTING IS VERY MESSY (CARBON DUST, OIL, SPARKS, ETC.) OTHERWISE, 3D PRINTING, AND STAINLESS METAL SINTERING CAN BE PERFORMED ANYWHERE.

THE 7.A FURNITURE IS ALSO SIZED TO FIT INTO A STANDARD GARAGE INCLUDING A WALKABLE AISLE AROUND IT. HOWEVER, THAT REQUIRES SELLING/ RE-PURPOSING THE SHELVES AND ROLLING KITCHEN AT A MINIMUM.

A. 2019 OUTBACK
- FOLDING BED IN BACK.
- WATER/SNORKEL/CAMPING IN WHEEL WELL
- ROOF RACK FISHING & BOATING
- MARGINAL TO BAD FLEXIBLE SOLAR PANELS
- GOOD BATTERY/INVERTER
- 50K MILES
- 2 SHEETMETAL, AND 1 LEXAN REPLACEMENT WINDOWS.

B. 2 SEDA KAYAKS
- DECK MOUNTS FOR DOUBLE SPAR ATTACHMENT BETWEEN
- STORAGE RACK
- FIBERGLASS, MODIFIABLE TO INCLUDE THREE WELLS FOR #10 “MODULAR AIRCRAFT CARRIER” BOAT.

C. STEEL BIKE
- REAR WHEEL IN HUB GEAR (NEXUS 6)
- PLAN FOR $1K EBIKE UPGRADE (BOTTOM BRACKET MOTOR/CRANK + TRIANGLE BATTERY PACK FROM ENGLAND)

D. STORAGE
- 2 STORAGE RACKS
- STORAGE TUBS
- ROLLING CARTS
- 5 GALLON BUCKETS
- 2 ROLLING TOOL CARTS
- 1 HEIGHT ADJUSTING DESK (5 YEAR OLD CUSTOM DESKTOP)
- COMPRESSOR, VACUUM, MILWAUKEE CART

E. KITCHEN & DESK
- 4’ DIAMETER ROLLING KITCHEN
- FRIDGE, MICROWAVE, TOASTER OVEN, INSTANTPOT, KETTLE, PLASTIC BAG SEALER
- 4’ ROTUND ON TOP

“ENABLING THE PIONEER”

A MODERN SMALL BUSINESS ORIENTED PLACE (ANYWHERE)

FROM:

- A BAG TO A HOME
- A VEHICLE TO A BUILDING
- A COOLER TO A CAMPSITE
- A LOT TO A TOWER
- A MOTOR TO A SHIP

AND EVERYWHERE IN BETWEEN,WITH PLENTY OF HELP.

THE 5 TENANTS OF CHRISTIANITY + HISTORICAL DOCUMENTS

PURPOSE: GRACE, FAITH, SCRIPTURE (ALONE)

1. GOD'S TEN COMMANDMENTS	* SWAPPED IN AS #2 OR #10 (REFER TO "INABILITY TO STAND")	2. THE CHIEF ARTICLES OF OUR FAITH (APOSTLES CREED)	* NICENE CREED	3. THE LORD'S PRAYER OR "OUR FATHER," AS CHRIST TAUGHT	4. BAPTISM	5. THE EUCHARIST, SACRAMENT – THE PURPOSE OF THE CHURCH.
1. YOU SHALL HAVE NO OTHER GODS. 2. YOU SHALL NOT TAKE THE NAME OF THE LORD, YOUR GOD, IN VAIN. 3. YOU SHALL SANCTIFY THE HOLY DAY. 4. YOU SHALL HONOR YOUR FATHER AND MOTHER <THAT IT MAY BE WELL WITH YOU AND YOU MAY LIVE LONG UPON THE EARTH>. 5. YOU SHALL NOT MURDER. 6. YOU SHALL NOT COMMIT ADULTERY. 7. YOU SHALL NOT STEAL. 8. YOU SHALL NOT BEAR FALSE WITNESS AGAINST YOUR NEIGHBOR. 9. YOU SHALL NOT COVET YOUR NEIGHBOR'S HOUSE. 10. YOU SHALL NOT COVET YOUR NEIGHBOR'S WIFE, OR HIS MANSERVANT, OR HIS MAIDSERVANT, OR HIS CATTLE, OR ANYTHING THAT IS HIS.	(1./2.) THOU SHALT NOT CREATE ANY GRAVEN IMAGES. (9./10.) THOU SHALT NOT COVET. THE LARGE CATECHISM ADDRESSES IDOLATRY WITHIN THE FIRST COMMAND AND COVETING WITHIN COMMANDS 9 AND 10. (11./12.) YOU SHALL LOVE YOUR NEIGHBOR AS YOURSELF. MATTHEW: 22:38,39 (MARK & LUKE AS WELL)	I BELIEVE IN GOD, THE FATHER ALMIGHTY, MAKER OF HEAVEN AND EARTH. AND IN JESUS CHRIST, HIS ONLY SON, OUR LORD, WHO WAS CONCEIVED BY THE HOLY SPIRIT, BORN OF THE VIRGIN MARY, SUFFERED UNDER PONTIUS PILATE, WAS CRUCIFIED, DIED AND WAS BURIED. HE DESCENDED INTO HELL. THE THIRD DAY HE ROSE AGAIN FROM THE DEAD. HE ASCENDED INTO HEAVEN AND SITS AT THE RIGHT HAND OF GOD THE FATHER ALMIGHTY. FROM THENCE HE WILL COME TO JUDGE THE LIVING AND THE DEAD. I BELIEVE IN THE HOLY SPIRIT, THE HOLY CHRISTIAN CHURCH, THE COMMUNION OF SAINTS, THE FORGIVENESS OF SINS, THE RESURRECTION OF THE BODY, AND THE LIFE EVERLASTING. AMEN.	WE BELIEVE IN ONE GOD, THE FATHER ALMIGHTY, MAKER OF HEAVEN AND EARTH, AND OF ALL THINGS VISIBLE AND INVISIBLE. AND IN ONE LORD JESUS CHRIST, THE ONLY-BEGOTTEN SON OF GOD, BEGOTTEN OF THE FATHER BEFORE ALL WORLDS; LIGHT OF LIGHT, VERY GOD OF VERY GOD; BEGOTTEN, NOT MADE, BEING OF ONE SUBSTANCE WITH THE FATHER, BY WHOM ALL THINGS WERE MADE. WHO, FOR US MEN AND FOR OUR SALVATION, CAME DOWN FROM HEAVEN, AND WAS INCARNATE BY THE HOLY SPIRIT OF THE VIRGIN MARY, AND WAS MADE MAN; AND WAS CRUCIFIED ALSO FOR US UNDER PONTIUS PILATE; HE SUFFERED AND WAS BURIED. AND THE THIRD DAY HE ROSE AGAIN, ACCORDING TO THE SCRIPTURES; AND ASCENDED INTO HEAVEN, AND SITS AT THE RIGHT HAND OF THE FATHER. AND HE WILL COME AGAIN WITH GLORY TO JUDGE THE LIVING AND THE DEAD, WHOSE KINGDOM WILL HAVE NO END. AND WE BELIEVE IN THE HOLY SPIRIT, THE LORD AND GIVER OF LIFE, WHO PROCEEDS FROM THE FATHER AND THE SON, WHO WITH THE FATHER AND THE SON TOGETHER IS WORSHIPED AND GLORIFIED, WHO SPOKE BY THE PROPHETS. AND WE BELIEVE IN ONE HOLY CHRISTIAN AND APOSTOLIC CHURCH, WE ACKNOWLEDGE ONE BAPTISM FOR THE REMISSION OF SINS, AND WE LOOK FOR THE RESURRECTION OF THE DEAD, AND THE LIFE OF THE WORLD TO COME. AMEN.	OUR FATHER WHO ART IN HEAVEN. HALLOWED BE THY NAME. THY KINGDOM COME. THY WILL BE DONE ON EARTH AS IT IS IN HEAVEN. GIVE US THIS DAY OUR DAILY BREAD. AND FORGIVE US OUR TRESPASSES AS WE FORGIVE THOSE WHO TRESPASS AGAINST US. AND LEAD US NOT INTO TEMPTATION. BUT DELIVER US FROM EVIL. {FOR THINE IS THE KINGDOM AND THE POWER AND THE GLORY FOREVER AND EVER.] AMEN.	GO THEREFORE AND MAKE DISCIPLES OF ALL NATIONS, BAPTIZING THEM IN THE NAME OF THE FATHER AND OF THE SON AND OF THE HOLY SPIRIT. [MATTHEW 28:19] WHOEVER BELIEVES AND IS BAPTIZED WILL BE SAVED, BUT WHOEVER DOES NOT BELIEVE WILL BE CONDEMNED. [MARK 16:16]	OUR LORD JESUS CHRIST, ON THE NIGHT HE WAS BETRAYED, TOOK BREAD, AND WHEN HE HAD GIVEN THANKS, HE BROKE IT AND GAVE IT TO THE DISCIPLES AND SAID: "TAKE, EAT; THIS IS MY BODY, WHICH IS GIVEN FOR YOU. THIS DO IN REMEMBRANCE OF ME." IN THE SAME WAY ALSO, HE TOOK THE CUP AFTER SUPPER, AND WHEN HE HAD GIVEN THANKS, HE GAVE IT TO THEM, SAYING: "DRINK OF IT, ALL OF YOU; THIS IS MY BLOOD OF THE NEW TESTAMENT, WHICH IS SHED FOR YOU FOR THE FORGIVENESS OF SINS. THIS DO, AS OFTEN AS YOU DRINK IT, IN REMEMBRANCE OF ME."

BIBLE	EASIER BIBLE	SERMONS	CHURCH HISTORY	AUDIO CHURCH HISTORY	AUDIO BIBLE	DEFINITIONS
https://www.crossway.org/books/esv-classic-reference-bible-ebook/	https://lutherantheology.org/Content/BoC/pdf/largecatechism.pdf	https://resources.lcms.org/worship-planning/lectionary-ies-c-and-one-year-series-2024-25/A	https://bookofconcord.org/	https://archive.org/details/LibriyoxBookOfConcord	WWW.ESV.ORG	WWW.CHRISTIANCYCLOPEDIA.COM